SEQUENCE LISTING

<110> Craig Rosen,
      Steve Ruben

<120> Human Prostate Cancer Associated Gene Sequences and Polypeptides

<130> PA101PCT

<140> Unassigned
<141> 2000-03-08

<150> 60/124,270
<151> 1999-03-12

<160> 1890

<170> PatentIn Ver. 2.0

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<223> n equals a,t,g, or c
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tgccagtggg tctccattgc ccagctcctg cccacactcc cgcctgttgc cctgaccaga 180
gtcatcatgc ctcttgagca gaggagtcag cactgcaagc ctgaagaagg ccttgaggcc 240
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<213> Homo sapiens

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<223> n equals a,t,g, or c

<400> 11
agaacagcaa ggtgggcatt tcccggaatt gtgtgcagat gcatccagtc gtggcattgc 60
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tgtgttccct gctcccactt ttcttcccct ggtttgtgat tattaggaga gaggttttgc 180
aaagactcgt tgctgtgaaa gaatcttttt ttaattttta tcctagagtc agtcactttt 240
attccaggta gtcatgctga tctrcttatc caaagccagc taaccaggtt catcctacca 300
tcctcatgga agactgtgtg tatgaattgg agtaacagaa ctgaaataca cttaaacagt 360
gacagcagta cttcccaggg tgggggccat atttctctgt gtcctactct gagcaacttc 420
tcagagatac gagggggcta gggtttttccc atctgggaaa tggggtgaaa gtctgcagat 480
tgttaaatga aatatagaat cagagaaaaa gaaaagtcag tgatataaat agatcatttc 540
atagaaatta gggtagattt ttatttcaac tactactgga gaatttaata aaaggcatta 600
tttgaaaagt ttttctaaca tagatttagg gttttttttt ttnagagtgg acacactaca 660
tttaaaagca attattttgc tattcagatt ttttattatc tgaaaatgaa attatctgtt 720
ttactttttca aagctttgtg aaacaaactt gaagttatag ggaggtaagc catctccaac 780
tctgcaggtc aaacgaaagt ttgggaaata cttttgacat cccacaatac agaatgtctt 840
```

```
aacatgagaa ttgaatttca tgatgtgtgg ttccatttaa tagcggacac caccccaatc 900
tcatgttttc ctgttaccct aaaacagtgg aaggaaactg ggtgtttggt agacttctaa 960
atcatggtct ctgacaattt gaatctgaga ttctcacctc catttactaa agaatcgtga 1020
cttaattcaa attgcacagt aatcagtaaa gtgaatacgt ttttaaaatg gaattttctc 1080
ccttcagcaa gcactcatta aggagtgagg ctgagtattt taagatagag tgagatctgt 1140
gagtgattga aaggtgatat ttaaaaactt ggatttcatt ccagtgtcag gtttgggttt 1200
taagttcctt tggtccaggg aagggtccaa gcagccacag ttgccctaaa tctccatcat 1260
taagtcttcc agcaaggtta agtgcagtat ggaaggagaa gggggaagag gacggtaacg 1320
gccccacact ccaggctgag aaagagtaat taggaggcct gasgaggggc cgaggaaagg 1380
ctgttggggt gtgctggggt tggtacccga gcgccttccc ctcacctcaa ccagagaaga 1440
gcatccggtt gcttttaaa gcttttagcc tgccctanca cggacaaagc atgtta    1496
```

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<210> 12
<211> 1427
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1402)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1407)
<223> n equals a,t,g, or c

<400> 12
ctagttcttc ctctccacgc ggttgagaag accggtcggc ctgggcaacc tgcgctgaag 60
atgccgggaa aactccgtag tgacgctggt ttggaatcag acaccgcaat gaaaaaaggg 120
gagacactgc gaaagcaaac cgaggagaaa gagaaaaaag agaagccaaa atctgataag 180
actgaagaga tagcagaaga ggaagaaact gttttcccca aagctaaaca agttaaaaag 240
aaagcagagc cttctgaagt tgacatgaat tctcctaaat ccaaaaaggc aaaaaagaaa 300
gaggagccat ctcaaaatga catttctcct aaaaccaaaa gtttgagaaa gaaaaaggag 360
cccattgaaa agaaagtggt ttcttctaaa accaaaaaag tgacaaaaaa tgaggagcct 420
tctgaggaag aaatagatgc tcctaagccc aagaagatga gaaagaaaa ggaaatgaat 480
ggagaaacta gagagaaaag ccccaaactg aagaatggat ttcctcatcc tgaaccggac 540
tgtaacccca gtgaagctgc cagtgaagaa agtaacagtg agatagagca ggaaatacct 600
gtggaacaaa aagaaggcgc tttctctaat tttcccatat ctgaagaaac tattaaactt 660
ctcaaaggcc gaggagtgac cttcctattt cctatacaag caaagacatt ccatcatgtt 720
tacagcggga aggacttaat tgcacaggca cggacaggaa ctgggaagac attctccttt 780
gccatccctt tgattgagaa acttcatggg gaactgcaag acaggaagag aggccgtgcc 840
cctcaggtac tggttcttgc acctacaaga gagttggcaa atcaagtaag caaagacttc 900
agtgacatca caaaaaagct gtcagtggct tgtttttatg gtggaactcc ctatggaggt 960
caatttgaac gcatgaggaa tgggattgat atcctggttg gaacaccagg tcgtatcaaa 1020
gaccacatac agaatggcaa actagatctc accaaactta agcatgttgt cctggatgaa 1080
```

```
gtggaccaga tgttggatat gggatttgct gatcaagtgg aagagatttt aagtgtggca 1140
tacaagaaag attctgaaga caatccccaa acattgcttt tttctgcaac ttgccctcat 1200
tgggtattta atgttgccaa gaatacatg aaatctacat atgaacaggt ggacctgatt 1260
ggtaaaaaga ctcagaaaac ggcaataact gtggagcatc tggctattaa gtgccactgg 1320
actcagaggg cagcagttat tggggatgtc atccgagtat atagtggtca tcaaggacgc 1380
actatcatct tttgngaaac cnagaangaa gcccaggagc tgtccca           1427
```

<210> 13
<211> 3548
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1103)
<223> n equals a,t,g, or c

<400> 13
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ggcacgaggc aaaatgggcc cgggaagaag aagaagccca gcgtcgatta gaggagaacc 60
ggctgcggat ggaagaggag gcagccagac tccggcatga ggaagaagaa cggaagagaa 120
aggcgctgga ggtccagcgg cagaaggagt taatgcgcca gaggcagcag cagcaagagg 180
ctctccggag gttgcagcag cagcagcagc aacaacagct ggcgcagatg aagcttcctt 240
cttcttcaac gtggggccag cagtccaata caacagcatg tcagtcccag gccacgctgt 300
cgttggctga atccaaaaa ctagaggaag aacgagaacg gcagcntcga gaagagcaaa 360
ggcgccagca gagggagttg atgaaagcnc ttcagcagca gcagcarcag caacagcaga 420
aactctcagg ttgggggaat gtcagcaaac cttcaggtac cacgaaatct cttctggaga 480
tccagcagga agaggccagg caaatgcaaa agcagcagca gcagcagcag caacaccagc 540
aaccaaacag agctcgtaac aatacgcatt ccaacctgca caccagcatt gggaattctg 600
tttggggctc tataaatact ggtcctccta accagtgggc atctgaccta gtcagtagta 660
tttggagtaa tgctgacact aaaaactcca acatgggatt ctgggatgat gcagtgaaag 720
aggtgggacc taggaattca acaaataaaa ataaaaacaa cgccatctca gtaaatctgt 780
aggtgtgtct aaccggcaga ataagaaagt agaagaagaa gaaagttgc tgaagctctt 840
tcagggagta aataaagccc aagatggatt tacgcagtgg tgtgaacaga tgcttcatgc 900
ccttaatacg gcaaataact ggatgttcc cacatttgtt tctttcctga aagaagtaga 960
atctccttat gaggtccatg attatatcag ggcctatta ggagatactt ctgaggccaa 1020
ggagtttgcc aagcagttcc ttgagcgccg tgccaaacag aaagccaacc agcagcgtca 1080
sagcmaggca gctgccggca gcngagcagc agccrccaca gcagccgyca cagcagccac 1140
aacagcagga ytctgtgtgg gggatgaacc acagtacact ccattcagta tttcagcagc 1200
tagagaaggc caaagctgca aagctagagc aagagagaag agaggcagaa atgagggcaa 1260
aacgggaaga ggaagagcga aagaggcagg aagawctccg aagacaacag gaggaaattc 1320
ttcggcgaca gcaggaagaa gaaaggaaaw ggcgagagga agaagaactt gcccgaagga 1380
```

```
aacaggaaga ggctctgcgt cgccagcggg agcaagaaat tgcattaagg cgacagcgag 1440
aagaggaaga aagacagcag caagaagaag ctcttagaag actggaagag aggagaagag 1500
aagaggaaga aaggcggaag caggaagaat tgttackcaa acaggaakag gaggctgcaa 1560
aatgggcccg ggaagaagaa gaascccagc gtcgattaga ggagaaccgg ctgccggatg 1620
gaagaggagg cakccagact ccggcawgaa gaagaaaaag cagaagatgg tccgagcaga 1680
tcccagttta ttaggatttt cagtcaatgc atcatcggag cgactcaaca tgggtgaaat 1740
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cgactatgga gtctccacct ttggacacaa cacttactca ccatttactc tttatcactc 1860
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cctatttata aacaaatact tttcctgcct ccaccaaacc cctacagaac atcacctgga 3060
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gtctgggcag cccctggaaa agcacctttg ctgcctgtca ttgttgcctg aagaaggctg 3180
gagttgctct gagagcagtt tgggtttgga gtattatatt tggcttctat ttttattatt 3240
ttggatcacc attctcccta tcccttcttg cctccctccc ttctaaacat gtgtaataac 3300
tatacagaga ctgctacaaa attgtatata gtttttggat caaatagcat gaggggagag 3360
gaaaccatta aaaattgggg ctcctactct cctttgcttt gtaaattcaa aagttggggg 3420
tgggtaagag ggatagttaa aatgtttaca aaactttagg ctccctcgga acttttgcca 3480
gtgtggagga aaataaaaaa gaacttaaat aaaatctgat tgtattctaa aaaaaaaaaa 3540
aaaaaaaa                                                            3548
```

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<210> 14
<211> 466
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
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<223> n equals a,t,g, or c

<400> 14
catcgtgtat gttccttctc acctccatca tatgcycttt gaactattta asaatgcaat 60
gcgggcaaca gttgaacacc aggaaaatca gcctnccctt acaccaatag aggttattgt 120
tgccttggga aaagaagacc ttaccattaa gatttcagac agaggaggtg gtgttcccct 180
gagaattatt gaccgcctct ttagttatac atactccact gcaccaacgc ctgtgatgga 240
taattcccgg aatgctcctt tggctggttt tggttacggc ttgccaattt ctcgtctgta 300
tgcaaagtac tttcaaggar atctgaatct ctactcttta wcaggatatg gaacagatgc 360
tatcatctac ttaaaggctt tggttackkc ttgccaattt ctcgtctgta tgcaaagtac 420
tttcaaggag atntgaatct ctactccata tcctgataaa gcttta          466


<210> 15
<211> 864
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (835)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (847)
<223> n equals a,t,g, or c

<400> 15
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gctggcgctg gatccaccct gggtctccaa ccagggctgc agagagggta gagccgtttc 120
ttaggccaga gtggagtggg acaggaggtg ccgagagagg actgaggtgg cttgggacat 180
ggaagcgctg cagccttcga gcccggcatc cagcattgca gccgccgcgg cggcctaaga 240
gctcgaaccc tttcacacgc gcgcaggagg aggagcggcg gcggcagaac aagacgaccc 300
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tttatcggct ctattgccag actactggac ttggaggatc agcagttgca ggtcatgcct 420
cagacaagat tgaaaacatg gtgcctgtta aagatcgaat cattaaaatt agctttaatg 480
cagatgtgca tgcaagtctc cagtggaact ttagacctca gcaaacagaa atatatgtgg 540
tgccaggaga gactgcactg gcgttttaca gagctaagaa tcctactgac aaaccagtaa 600
ttggaatttc tacatacaat attgttccat ttgaagctgg acagtatttc aataaaatac 660
agtgcttctg ttttgaagaa caaaggctta atccccaaga ggaagtagga tatgccagtg 720
tttttctaca ttgatcctga atttgctgaa gatccaagga atgattaaag ttgrtcttat 780
cactctttct ttacactttt ttttgarggc aagggagggg gcaccagttg cccgnttccc 840
ggggttntaa tttgaaggtt cagg                                      864


<210> 16
<211> 2805
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
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<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<400> 16
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cctcagcaaa ggatgccttt gtcattctgg tggagaatgc tttgcgagtg gctaccatca 120
acacagtagg agatttatg ttattccttg gcaaggtgct gatagtctgc agcacaggtt 180
tagctgggat tatgctgctc aactaccagc aggactacac agtatgggtg ctgcctctga 240
tcatcgtctg cctctttgct ttcctagtcg ctcattgctt cctgtctatt tatgaaatgg 300
tagtggatgt attattcttg tgttttgcca ttgatacaaa atacaatgat gggagccctg 360
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gcaagttctg cttgaaccta gccgacggtt atggaaaccc attgacattc caaaacaata 540
tatacacaca cacataaatc agccaaaatc agagaaaagg aacagggatt taatacctt 600
tttatgctta tttttgtcaa acatgtactc ctttcatacg ggtggcttttt acaaggcaac 660
ttccgtcatt taatgttttc aactgtaatt gtcttaatgg aaatgttaaa attcatatct 720
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ttgtacctaa ttatgtctaa agtttattca ggggtaattt ccctgatgtc tgtataaat 840
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gataaataag gaattactcc aatcagtttt ccccaatcaa agaagccatg tcattttact 960
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ccattttatt caaatgcttg ctatacaatc tgaaaacaca ctggcaggtg ctcctctcct 1440
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gtgaatgctt taagaaaaaa aagtgtaatt tgctaagaat aattcatgat ctgtttatgc 1680
gataactcct ttttgttaca atttttttaa aaaaagctat ttttgttaat gtaaagtaaa 1740
tatttcagag caaatttttt aaacttattg cactaaatac aggctctgta caaaaaaaaa 1800
aaaaaaaaaa aagcctcagc attttatcat tccatggaag gagaatcttt tgaaagaaag 1860
cattgcctcc taccagaact agacagtgaa ttagatcggt attatggaaa tgcatacaag 1920
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taatgtcact agggcttaat aagcagccgt ttgctaatgt gcttcctttc aaagggttgg 1980
acctttaaat tgctgcaaaa ggtaaattgt attttttttt aagtattggt gttctttact 2040
ctagctaggc taaaatttgc taaatgcctt ggtttctttt aaaagttcat gtaatatttc 2100
tgatttttca gaatatttgc aataagagtc tggatttta aaaacacatg catacacaca 2160
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gagagcaaat catgtgagaa aattcagaat accatctgtt tcatagccgc acagattttg 2400
gactttcaca aacattggga actaaattta gaattggcaa aagtctagaa gatgggtatc 2460
aaaacagaag acattccagg agctagcaat tttaagaggt gtccctccaa agtgacctga 2520
tggaagtcct gaacttggaa attaggttct actcacttgg acatccctgc atcatggact 2580
gttgctgctc cctgttccat atgctcgcaa tctcagctat ttggaagcta ccaggaatgc 2640
tttctaatta tcatttgcaa ctagaactgt aatcagaaag aaattttgta tttttgtata 2700
acttgattgt gtgccatttt atataacagg tcctgtttta caaataaatt ttgtttttact 2760
aamaaaaaaa aaaaaaaaaa aaaaaaaaaa agggtggggg gaaaa            2805
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```
<210> 17
<211> 710
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (608)
<223> n equals a,t,g, or c

<400> 17
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agtaacgtca ttcgaacccc gtcgcgcccc tttgtgcgtc acgggtggcg ggcgcgggaa 120
ggggatttgg attgttgcgc ctctgctctg aagaaagtgc tgtctggctc caactccagt 180
tctttcccct gagcagcgcc tggaacctaa cccttcccac tctgtcacct tctcgatccc 240
gccggcgctt tagagccgca gtccagtctt ggatccttca gagcctcagc cactagctgc 300
gatgcatgtg atcaagcgag atggccgcca agaacgagtc atgtttgaca aaattacatc 360
tcgaatccag aagctttgtt atggactcaa tatggatttt gttgatcctg ctcagatcac 420
catgaaagta atccaaggct tgtacagtgg ggtcaccaca gtggaactag atactttggc 480
tgctgaaaca gctgcaacct tgactactaa gcaccctgac tatgctatcc tggcagccag 540
gatcgctgtc tctaacttgc acaaagaaac aaagaaagtg ttcagtgatg tgatggaaga 600
cctctatnaa ctacataaat ccacataatg gcaaacactc tcccatggtg gccaagtcaa 660
cattggatat tgttctgggc cawtaaagwt cgsctggaat tctgctgatt            710
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<210> 18
<211> 992
<212> DNA
<213> Homo sapiens

<400> 18
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atttttttact ttccccaccc agcaggatat gctggttcaa ggcctaaagt aaaatgatca 60
ataatgtttg tagcattaat gaaatatttt caagaaatgt gtccaggggt agcactggct 120
atgttgacga ggcctttggt aactcagaga gctcttggcc ctgatgggga cttgcccttta 180
cgctttctttt atcaggctct gagttcacac ggagcctctg gcacttccct gctgtcttgg 240
gagaaaggaa actggttgcc gcggcaggtt gtggaatctg ttgctggaac caggctggaa 300
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tctcacagca cgtccagaag gctaacccag gtggggagga tgctgacacc agctccaggt 480
ggagttggtg gtcttaattt ggagatgcag gggcaacctg tgacccttttg aggcaagagc 540
cctgcaccca gctgtcccgt gcagccgtgg gcaggggctg cacacggagg ggcaggcggg 600
ccagttcagg gtccgtgcca ggcctcctc agtgccctgt gaaggcctcc tgtcctccgt 660
gcggctgggc accagcacca gggagtttct atggcaacct tagtgattat taaggaacac 720
tgtcagtttt atgaacatat gctcaaatga aattctactt taggaggaaa ggattggaac 780
agcatgtcac aaggctgtta attaacagag agaccttatt ggatggagat cacatctgtt 840
aaatagaata cctcaactct acgttgtttt cttggagata aataatagtt tcaagttttt 900
gtttgtttgt tttacctaat tacctgaaag caaataccaa aggctgatgt ctgtatatgg 960
ggcaaaaaaa aaaaawawa aaaaaaaaa aa                                   992
```

<210> 19
<211> 1795
<212> DNA
<213> Homo sapiens

<400> 19

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<210> 20
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (708)
<223> n equals a,t,g, or c

<400> 20
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<210> 21
<211> 649
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (596)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (600)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (624)
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<223> n equals a,t,g, or c

<400> 21
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tccctattat gtccatttta aatttaagga aaaaggggcg aaaatttaaa actaanggcn 600
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<210> 22
<211> 1607
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (820)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (821)
<223> n equals a,t,g, or c

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<210> 23
<211> 578
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c


<400> 23
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<211> 2756
<212> DNA
<213> Homo sapiens

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<222> (20)
<223> n equals a,t,g, or c


<220>
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<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

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<210> 25
<211> 2680
<212> DNA
<213> Homo sapiens

<400> 25

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<210> 26
<211> 1859
<212> DNA
<213> Homo sapiens

<400> 26

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agacaagcag  cggatgaagc  gttttctcag  cttttggaat  tgcttcgacc  tgacatccgt 1560
tgtaaccgtt  tgccacttct  tcagatattt  ttataaaaaa  gtaccactga  gtcagtgagg 1620
gccacagatt  ggtattaatg  agatacgawg  gttstgtggt  gywgtttaag  attaagaggc 1680
atacaccact  tagtaaacta  atgaaagcct  attgtgaacg  acagggattg  tcaatgaggc 1740
agatcagatt  ccgatttgac  gggcaaccaa  tcaatgaaac  agacacacct  gcacagttgg 1800
aaatggagga  tgaagataca  attgatgtgt  ccaacagca   gacgggaggt  gtctactga  1859
```

<210> 27
<211> 634
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (525)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (561)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (629)
<223> n equals a,t,g, or c

<400> 27
gcacacatca gttccaggcc ccattccatt ctctgaacat cttctgacac actgacagtg 60
ctgagcagag caaggttggg ttcgctcctc tggcagaacc tcggctctca ggaggtcctt 120
gttccaggga acagctgctt ctctggggct gggctctact ccctgcagcc cctcgcacta 180
cccagctgga accagggaca acgcctgagt ccaaccctcg tgtctatttt ccagaaaacg 240
ggcaatgctg tgagagccat tggaagactg tcctctatgg caatgatctc agggctcagt 300
ggcaggaaat cctcaacagg gtcaccaacc agcccgctca atgcagaaaa actagaatct 360
gaagaagatg tgtcccaagc tttccttgag gctgttgctg aggaaaagcc tcatgtaaaa 420
ccctatttct ctaagaccat tcgcgattta gaagttgtgg agggaagtgc tgctagattt 480
gactgcaaga ttgaaggata cccagacccc gaggttgtct ggttncaaag atggaccagt 540
tcaatcaggg agtcccgcca ntttccagat agaytacgwt gaggacgggr acygytcttt 600
aattattagt gatgtttccg gggatgacna tgcc   634

<210> 28
<211> 1632
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (926)
<223> n equals a,t,g, or c

<400> 28
cacggcgcgg gtgagtcaga acccagcagc cgtgtacccc gcagagccgc cagccccggg 60
catgttccga gacttcgggg aacccggccc gagctccggg aacggcggcg ggtacggcgg 120
ccccgcgcac ccccggccgc agcgcaggca gcccagcaga agttccacct ggtgccaagc 180
atcaacacca tgagtggcag tcaggagctg cagtggatgg tacagcctca tttcctgggg 240
cccagcagtt accccaggcc tctgacctac cctcagtaca gcccccaca rccccggcca 300
ggagtcatcc gggccctggg gccgcctcca ggggtacgtc gaaggccttg tgaacagatc 360
agcccggagg aagaggagcg ccgccgagta aggcgcgagc ggaacaagct ggctgcggcc 420
aagtgcagga accggaggaa ggaactgacc gacttcctgc aggcggagac tgacaaactg 480
gaagatgaga aatctgggct gcagcgagag attgaggagc tgcagaagca gaaggagcgc 540
ctagagctgg tgctggaagc ccaccgaccc atctgcaaaa tcccggaagg agccaaggag 600
ggggacacag gcagtaccag tggcaccagc agcccaccag ccccctgccg ccctgtacct 660
tgtatctccc tttcccaggg cctgtgcctt gaacctgagg cactgcacac ccccacactc 720
atgaccacac cctccctaac tcctttcacc cccagcctgg tcttcaccta ccccagcact 780

```
cctgagcctt gtgcctcagc tcatcgcaag agtagcagca gcagcggaga cccatcctct 840
gaccccccttg gctctccaac cctyctcgct ttgtgaggcg cctgagccct actycctgca 900
gatgccaccc tagccaatgt ctyctnccct tccccaccg gtccagctgg cctggacagt 960
atyccacaty caactycagc aacttcttyt ccatccctct aatgagactg accatattgt 1020
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atacaaacct accaaaatgg aataaaaggc ttgaagctgt ggcctgagtg cctcactgga 1560
cccagaggcc aatgggagag tatttggagc cctaggtccc agccttagct ctacagactc 1620
actgcaaaaa aa                                              1632
```

```
<210> 29
<211> 2539
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (936)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (951)
<223> n equals a,t,g, or c

<400> 29
ggaagaagag aagaaagaca gtggtgttgc ttcaacagaa gatagttcct catcacatat 60
aactgcagca gccattgctg ccaagaagca tccattctac accantcctg ctgttgtcat 120
ggcacacggt gaacagccca tccctggtct catcaattat tcccatcatt caacagatga 180
acggrttcca gactccatca tttctcgtgg tgttcaggtg ctcccacgag acacagcctc 240
cctcagcact actccttcag aatcgcctcg tgctcaggct acatctcgcc tctctacagc 300
ttcctgccca acaccaaaag tccagtccag gtgcagcagc aaggagaaca ttctcagagc 360
cagwcacagt gctgtcgata tcaccaaggt ggctagaaga catcgcatgt ytccttttcc 420
tctgacatct atggacaaag cctttatcac agtcctggag atgactccgg tgcttgggac 480
agaaatcatc aattaccgag atggaatggg gcgagtcctt gctcaagatg tatatgcaaa 540
agacaattta ccccccttcc cagcatcagt aaaagatggc tatgctgtcc gagctgctga 600
tggcccagga gatcgtttca tcattgggga atcccaagct ggtgaacagc caactcagac 660
agtaatgcca ggacaagtca tgcgggttac aacaggtgct ccaataccct gcggtgctga 720
tgcagtagta caagtggaag ataccgaact tatcagggaa tcagatgatg cactgaaga 780
acttgaagtg cgaattctgg tgcaagctcg gccaggccaa gatatcagac ccatcggcca 840
```

```
tgacattaaa agaggggaat gtgttttggc caaaggaacc cacatgggcc cctcagagat 900
tggtcttctg gcaactgtag gtgtcacaga ggttgnaakt taataagttt nccagtggtt 960
gcagtcatgt caacagggaa tgagctgcta aatcctgaag atgacctctt accagggaag 1020
attcgagaca gcaatcgttc aactcttcta gcaacaattc aggaacatgg ttaccccacg 1080
atcaacttgg gtattgtarg agacaaccca gatgacttac tcaatgcctt gaatgagggt 1140
atcagtcgtg ctgatgtcat catcacatca gggggtgtat ccatggggga aaaggactat 1200
stcaagcagg tgctgggaca ttgatcttca tgctcagatc cattttggca gggtttttat 1260
gaaaccaggc ttgccaacaa catttgcaac tttggatatt gatggtgtaa gaaaaataat 1320
ctttgcacta cctgggaatc ctgtatcggc tgtggtcacc tgcaatctct ttgttgtgcc 1380
tgcactgagg aaaatgcagg gcatcttgga tcctcggcca accatcatca aagcaaggtt 1440
atcatgtgat gtaaaacttg atcctcgtcc agaataccat cggtgtatac taacttggca 1500
tcaccaagaa ccactacctt gggcacagag tacaggtaat caaatgagca gccgtctgat 1560
gagcatgcgc agtgccaatg gattgttgat gctacctcca aagacagaac agtacgtgga 1620
gctccacaaa ggcgaggtgg tggatgtcat ggtcattgga cggctatgat ggtcaccagc 1680
aggagaaagc tttgatgcat gtccacatat cattgactgt atcctgtaat atgcaacggc 1740
acagctagtt ttcccgattt ggataaaagt.tgatctgtat agtcaacatc ttgaactata 1800
tttcaaatga atttaaatat cttttaaaga aaaaaacacc taaaaataaa tcttaacaga 1860
aaattctgtt ctgattatat caaggcaaat ttttcctttc ttgcaaattg ctttgtgtgt 1920
tcaatgctag gtctgatagc gatagytttt agtagacagc ggtaggtgcc tgcagaactt 1980
gtgtttttct catctttaaa atacaactac ttatgctctt aaatcaaggc tgtctgctta 2040
tttatactag cgtaggcaac acttggattt cccttcttag tatgcttcat aactgcttta 2100
cagagagctt ttgcttgktc tttctcatgt atctcgtgtt tatgtgcaca gtgccaaaag 2160
aagactgact gggtggagct ctgccttgcc tcaagaacca tcccctgcag agcatccagg 2220
gaggtttctc gccccaaatw cstcacggca cagtactctt gggcagtaac tggacacctt 2280
ttatttgaag aaacaaactg aagaaaaaat gcttccttaa gtgctgacag cctttttaac 2340
caatacattt aaaattgtac agaacaaaaa aataaaatca aagactgatc ttgtacagat 2400
attagtgtta ccagcattca tgtggaaatc aagagcaaag acaaaataat gttaaacaat 2460
tctgtaccat aacatttct gtaatgatac tgaaacttaa tgaataaaaa aattccttga 2520
tcattattta aaaaaaaaa                                                2539
```

```
<210> 30
<211> 494
<212> DNA
<213> Homo sapiens
```

```
<400> 30
gtcttctaga ggtagagtcg agtgtatctg agagtgcttc tctcttagaa taaatgacat 60
taacatatga aaaaacagct acttgtgcct gactatgggc attttcatgt acasgagttc 120
ttgaagctga gtttattgag aatggttttg ttacctgctg atagctatct ttttgtgttt 180
agttcttttt gacttctttg gcctctaatg ttttgacagt ggcacttaga tgacagtcag 240
caattgcaac agtgaatgaa atcacacagc ttgagttcaa ggtggaaaga gaaaaaaatc 300
tagagaggat gttatctgac ctggcatgag aggtgatcat cctgtctctg agcagtgggt 360
tcttgctctc gaccttaggg tgtaatgtgg ccctgctcct .tgtatggtga.ataacttgtg.420
actgctgtgt ttaccacatg gsttgrcagt tkacaaagca ctttgkgkat atattgcaca 480
ctctgcatcc ttac                                                    494
```

```
<210> 31
<211> 1263
<212> DNA
<213> Homo sapiens
```

```
<400> 31
taaatgatgt tttggttaag agtggaccat gagaattagc tgacagcatc ccctttctct 60
ctccctgcct tggtgggacc ctcctgtgtg accttggcaa gtctcgaact tttgtccgta 120
tttaagatgg agctgtttta cctacttcat aagacagttg cgaggtgcca ttgattcttg 180
actgcaaaat accttgaaac ccttatataa agactgaagk caacggagcc tagtgaaaga 240
cttactttgt ggcttgtggt tgaaagtcac atcaaaagac aaatgtggcc acgttcagga 300
attggagact tactggcatg gctctacagc tgctcagtta ttaatcatgc agactaacct 360
gtcaacactg ggagatgcaa catagcaaaa ggacagagaa attagaattt tttgtgcaga 420
aagccctaaa ttcccacctg aatgtaactt acagctccct tacctactct cacacatgcc 480
ctcaaacatg ctagattggc ttatacatag gccaacacaa aatacaaacg tgacgtgttc 540
atgtagccta gtggctatat gcctattctc catgtaccct gcatggtagt gctgcaaact 600
ttaaagtaca tttctttcac agcagtattt ttttttcataa gtggcatata aatctcattc 660
aatgaaatgs ggaaatcacg ttgagaagtt ggtctgtcat ctcccattga gcaaagactg 720
gcaggagata ataaaaataa atatgggcac acatgtatta atatacagca cgcatttaca 780
agtttatttt ccagataaaa ttgtgctata agaacagctc taccaagaca gtctgcacca 840
tttccaagtc tcagttaatt tacagcaact gctgctttcg gagatggctg tgaaaatatg 900
gaagttcctc tcaagtaggc ccaagaaaca gttctagatt ttactaagtt ttattttgtc 960
aggttttta aatttttca gtgagcgtgg tgactgcaga ggttagtgct gtgaaaagct 1020
gggctaaata ttctttctgt aaagtcaaac aggattccat cccctgtgaa ataacacaaa 1080
atttcactct ctaaaagcaa cagcatgtaa actagaatga aagaaggaaa ttatgtacgt 1140
atgcctaata ttctttgtga atgtctttca tttaactaaa attatattag aaaccagatt 1200
gataaataaa aaattcaaag tagttttaat tatcctaaaa aaaaaaaaaa aaaaaaagt 1260
ttt                                                                      1263
```

```
<210> 32
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c
```

```
<400> 32
ggcacgaggc aaaaatgaaa acaaggcagc agcatcagac ctatctttag attgtttttt 60
ttttctctct cttttacaag tgtcagttta attccagagc cctggcccag tattttctga 120
tgattttctc cccaaggaag agaaggaaat ccctgctggt tacacagctg cgatgtcaga 180
cttcctctga aacatgcact gttgctgcct attagcataa cttcagtctc tcattctctc 240
ctgactgatt agtgatctgc aggcagttta aaaaacatac tttggagggg ccgggcgtgg 300
tggctcacgc ctataatccc agcactttgg gaggctn                                 337
```

```
<210> 33
<211> 1742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1576)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1578)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1621)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1724)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1733)
<223> n equals a,t,g, or c

<400> 33
gtggggggna ggggganaag gccaagactg gggwagaatt ttaaagattc aacactggtg 60
tacatatgtc cgctgggtga gttgacctgt ggcctcgcac agtgattctg ggcccttat 120
gcttgctgtc tctcagaatt gttttcttac cttttaatgt aatgacgagt gtgcttcagt 180
ttgtttagca aaaccactct cttgaatcac gttaactttt gagattaaaa aaaaaaacgc 240
catagcacag ctgtctttat gcaagcaaga gcacatctac tccagcatga tctgtcatct 300
aaagacttga aaacaaaaaa cagttactta tagtcaatgg gtaagcagag tctgaattta 360
tactaatcaa gacaaacctt tgaaaggtta cactaagtac agaacttta aaccttgctt 420
tgtatgagtt gtacttttg aacataagct gcactttat tttctaatgc agaggatgaa 480
taagttaaat acatgctttg aggatagaag cagatgttct gtttggcacc acgttataat 540
ctgcttattt tacaatatac acgtttccct aagaaatcat ggcagagatg tgagggcaga 600
atatacacaa cagatgctga aggagaagga gggtagtgtt ttgcaaaaga aaaagaaaag 660
aaccaacaga atttttaactc tattaacttt tccaaatttt cctatgcttt tagttaacat 720
cattattgta tcctaatgcc actaggggag agagcttttg actctgttgg gtttttatttg 780
aatgtgtgca taacagtaat gagatctgga aacacctatt ttttggggaa aaaggtttgt 840
tggtctcctt cctgtgttcc tacraaactc ccactctcag gtgcaagagt tatgtagaag 900
gaaagggagc tgaaatagga acagaaaaat caaccccctat aactagtgaa caccaaggga 960
aaataccaca atgatttcag aggagactct gcaaaatcgt cccttgtgga gaatgcaggc 1020
aacatggaat actacgaatg aaatcacatc actgtatctt ttacatcaat agcctcacca 1080
ctaatatatc ttgtatctag gtgtctataa tggctgaaac cactacatcc atctatgcca 1140
```

```
tttacctgaa aacttaactg tggcctttat gaggccagaa aagtgaactg agttttcgta 1200
gttaagacct caaatgaggg gagtcagcag tgatcatggg ggaaatgttt acattttttt 1260
tttcttcaga agtaacgctt tctgatgatt ttatctgata tttaaaacag ggagctatgg 1320
tgcactctag tttatacttg cgctctgaaa tgtgtaaaca tagggtgcct acctatttca 1380
cctgacccat actcgtttct gattcagaat cagtgtgggc tcctgcagtg ggcgcgggtc 1440
acggctgact ccaacttcca atacaacagc catcactagc acagtgtttt tttgtttaac 1500
caacgtagtt gtwattagta gttctataaa gagaactgct tttaacatta ggggactggg 1560
gagcagtcca tggggntnaa aaagggaagt gttttctcac grggaaaaca tgtycaggga 1620
naawtaaagg aacactttct accyctgttt ccaggatttt tgaaacactt wttttttaaac 1680
ccaatttttta atttcygtgt tcccaaaata ggttttttag gggncatctg ttncttcccc 1740
ta                                                                  1742
```

<210> 34
<211> 1166
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (965)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1090)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1094)
<223> n equals a,t,g, or c

<400> 34
```
ccggaatgaa aacaaacggc ggccgctgcc gagtccgggc actctgctgg tcgcggcggg 60
agtggcgtgg cgcagggatg gcacaaaaga aatatcttca agcaaaattg acccagtttt 120
taagggaaga caggattcaa ctttggaaac ctccatatac agatgaaaat aaaaaagttg 180
gtttggcatt aaaggacctt gctaagcagt actctgacag actagaatgc tgtgaaaatg 240
aagtagaaaa ggtaatagaa gaaatacgtt·gcaaggcaat tgagcgtgga acaggaaatg 300
acaattatag aacaacggga attgctacaa tcgaggtgtt tttaccacca agactaaaaa 360
aagataggaa aaacttgttg gagacccgat tgcacatcac tggcagagaa ctgaggtcca 420
aaatagctga aacctttgga cttcaagaaa attatatcaa aattgtcata aataagaagc 480
aactacaact agggaaaacc cttgaagaac aaggcgtggc tcacaatgtg aaagcgatgg 540
tgcttgaact aaaacaatct gaagaggacg cgaggaaaaa cttccagtta gaggaagagg 600
agcaaaatga ggccaaactc aaagaaaaac aaattcagag gaccaagaga ggactagaaa 660
tactggcaaa gagagcagca gagacagtgg tggatccaga aatgacaccg tacttagaca 720
tagctaacca gacaggcaga tcaatcagaa ttccccccatc agaaagaaaa gcccttatgt 780
tagctatggg atatcatgag aagggcagag ctttcctgaa aagaaaagaa tatggaatag 840
ccttgccatg tctgttggac gctgacaaat atttctgtga gtgttgcaga ragctgctgg 900
acacagtgga taactacgcc gtcctccagc tggatatagt gtggtgttam ttccgcctgg 960
aacanctgga atgccttgat gatgcagaaa aaaaattaaa cttggsccag aaatgcttta 1020
aaaattgtta cggagaaaat cmtcagagac tggtccacat aaaagtatgt tcctgggaat 1080
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tcatcttatn ggcncgttga gtccatttct agcatttgtg tttattcctg ttaaagtatt 1140
tgaactactg ccagaaggtg gatttt 1166

<210> 35
<211> 1049
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<400> 35
gatgggtgcc cccggcngca ggaattcggc cagcaggntg gtgctggggc ttcttctcct 60
gaaggggctg caagagggaa ggcttagcca tgtcgtcctt gatcagaagg gtgatcagca 120
ccgcgaaagc cccagggggcc attggaccct acagtcaagc tgtattagtc gacaggacca 180
tttacatttc aggacagata ggcatggacc cttcaagtgg acagcttgtg tcaggagggg 240
tagcagaaga agctaaacaa gctcttaaaa acatgggtga aattctgaaa gctgcaggct 300
gtgacttcac taacgtggtg aaaacaactg ttcttctggc tgacataaat gacttcaata 360
ctgtcaatga aatctacaaa cagtatttca agagtaattt tcctgctaga gctgcttacc 420
aagttgctgc tttacccaaa ggcagccgaa ttgaaattga agcagtagct atccaaggac 480
cactgacaac ggcatcacta taagtgggcc cagtgctgtg tagtctggaa ttgttaacat 540
tttaattttt acaattgatg taacatctta attaaccttt taattttcac aattgatgac 600
agtgtgagtt tgatgaaaat atctgaagct attatggaaa taccatgtaa tagggagagt 660
tgaacatgaa tattagagaa ggaatccagt tactttttta aattacacct gtgtgcacct 720
gtattactga atataggaaa gagataccca ttacatagtt actcagtaaa caaaagagaa 780
ataccaggta ggaaagaaga gttactattc ctgagaaata atcaagaaca tatttaattt 840
aaactaatga tgtgaactat ttagttttga tgtccgttat gtgattctgc ttttacttga 900
gtaaaattaa agtgtttaaa tttgagatca aggagaagat agtggaacaa aatgttatat 960
agataatatt tttctaatgg aaataaaata ggcagatttc aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaactcga 1049

<210> 36
<211> 489
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<400> 36
gtttgttgcc tgcttgtttt aatgttctgg cttgaggcag cgagcccttg actatgccac 60
attgccagga ttttgcaggt tagattgtac tacagcactg cctttggctt gccagactct 120
ggagtcccca cattttcatc ctgttctcag gaaaacactt tgacccactt gaagctctga 180
gctactgctt cacagcttcc tggggtcagt ctccagccaa aaccatagat atcccaamwg 240
cagccaaacc acggctctgg gcgaaggaac gattaggttt actstaggtt tccacaccct 300
gatgctcctg gcctttaatt tgacaactct ggactgccag gttttcacag acngttggac 360
atggattcaa gattgggaat gtnangggat ggtttggcaa cagtgtttgc tttgagcagt 420
tttaaaattt ggccaggaga ttcatgtgag caagaaatgt tagataccag ttttttgggg 480
tcaaggggg   489

<210> 37
<211> 598
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (595)
<223> n equals a,t,g, or c

<400> 37
gactcccaga gtgctgggat ttcaggtgtg agccactatg cccagcctaa tacgtggatt 60
tttaaagctt caggttctgg ttcagaagtt tcctgggtct cattaaaata atgaggcact 120
cagaattggt ctaataaaaa taacgaccat ttctttctac tccagtctct ttcacaaact 180
tcttagtgaa aatgacaagt gaggcccttc agtaggggca ttttcagtgg agataatagc 240
ggcagacctg agaccttggg ctaggtagtt tattctcatt tctgaacaga tgatgaattt 300
tctcagatga ccctaagaaa ttgtttttacc aaaaacaaag tgatctattt gctttgggag 360
gaactccctt ccttttgttt ctcttccctt cccccttcc cctgcggttg tagagcccgt 420
tctgtccggt cgtggttctg tccagccatg atccgggagt cctagcttgc taatggamca 480
cctgagatgt tccttatggc tcaaggctwa aattgaaggt gggaaccacc tgaagcctcc 540
gtggggaggc cttgsgggag gttwggccta aargcattag gaagatacta gcttnagg   598

<210> 38
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (725)
<223> n equals a,t,g, or c

<220>

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<221> misc feature
<222> (730)
<223> n equals a,t,g, or c

<400> 38
gtctttggga actcaaaaag ttatctgtgc attttcatcc ctccgtggcc cttttttgcaa 60
agaccatcct tcagggaaac tatattcagt attcagggga cccactgcag gatttcactc 120
taatgagatt tttggatcga tttgtatacc gaaatccaaa gccccataaa ggcaaagaaa 180
acacagatag tgttgtgatg cagccgaaaa gaaaacattt tattaaggat attcgtcatc 240
ttcctgtgaa cagtaaggag ttccttgcaa aagaagaaag ccaaatacca gtggatgaag 300
tgttttttcca caggtattat aaaaaagttg ctgttaaaga gaaacaaaaa cgggatgcag 360
atgaagaaag tatagaagac gtggatgatg aagaatttga agagctgatt gacacatttg 420
aagatgataa ctgtttcagc tctggaaagg atgatatgga ttttgctgga aacgtgaaaa 480
agagaacaaa aggagctaag gataacacat tagatgaaga ttcagaaggt agtgatgatg 540
aacttggtaa cctggatgac gatgraagtt tctttaggga agtatggatg atggaagaat 600
ttgctggaag ttgatggaag atgggaggga acattycatg ggatgtgttt agatggatgg 660
aaagtggaga gtgtttccag aacttggaag ttccactccc aaagtccagt accaaggaaa 720
agccnagagn aaaagggtac cagtggattt ttggaccttg gc                  762
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<210> 39
<211> 1958
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1835)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1885)
<223> n equals a,t,g, or c

<400> 39
tcgagttttt tttttttttt ttctcgtgag cttaggccgc tggttttggt gattttgtc 60
tgattgcaat gtctggacgt ggtaagcaag gaggcaaagc tcgcgccaaa gcgaaatccc 120
gctcttctcg cgctggtctc cagttcccgg tgggccgagt gcaccgcctg ctccgtaaag 180
gcaactacgc agagcgggtt ggggcaggcg cgccggtgta cctggcggcg gtgttagagt 240
acctgaccgc cgagatcctg gagctggccg gcaacgcggc tcgcgacaac aagaagactc 300
gcatcatccc gcgccacttg cagctggcca tccgcaacga cgaggagctc aacaaactgc 360
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ctaagaagac cgagagtcac cacaaggcca agggcaagtg atttgacagg tatctgagct 480
cccggaaacg ctatcaaacc caaaggctct tttcagagcc ccctaccgt ttcaaaggaa 540
gagctaacct cactgcttgt aggtagaagg aaaaaaggca ctaaggttgc aaaagcttct 600
catttcagag agatgccagg atcctaagtg cctgccaaac ttaccaattc taaggaataa 660
gtggatggat ggcattactg attcctacat tactgattga ttctgcatcc gcaaattgtt 720
ttattaaaaa cattctacat catgtgtggg gagataagga ggataaaatg aagagaaaga 780
atattattga ggggaagttc ttctgaatac aaaatgtgtt taattttta aataagtatt 840
acattcacag ggttcaaact atttgaagta aagagattat atataaagaa tccatccctc 900
aacttaccca ggtggtcact tttctttttc ttgtgtatct gcccagtatt cattcctgct 960
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gatatcagtc aataatgaat gatacgtgtt ttcttcactt ttttcattct tgtcaggtag 1020
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ccctatgaga acatacagag cttcctgtac acagttgcat gtactgcatt atgcaaatgc 1140
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gttcttaaaa actatgtggc catcaccaaa ttagttattt tgaaccttaa tttcttcacc 1380
tctaaaatgg aggtaatact taccttaagt ggctatgaga atgaagatca tgtgtatgaa 1440
ttgttggtgc tctaaagaac agcacaaata aaattatttt caaatttaat tttaattgaa 1500
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tccctggtta aattgccatt tcctttcttc cttgcataat gattaggaaa cacatcctcc 1740
tgacctgcct gccctctttt gcctactttt tcatctgcag tcaaggtctg gttttaagac 1800
tgactgttac ttttacaaat ctgtgtgtat tggtnggcta agggcctgta tgggtccact 1860
gctgtattcc cagggtccca gcatnggkgc ctggacgctg cckgggcaaa tagtagtcac 1920
ccgaggaaat gggctggatg gaatttcatg gagggcct                         1958
```

<210> 40
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 40
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gcccangtct ccgcttnccc cgtcttgtac acccctaact cctgaggctc ctccgaatca 60
cgcganggaa agcggagaag ctcaagtggc cgccatgtca gaggcttatt tccgagtgga 120
gtcgggtgcg ctggggcctg aggagaactt tctttctttg gacgacatcc tgatgtccca 180
cgagaagctg ccggtgcgca cggagaccgc catgcctcgc cttgggcttt cttcctggag 240
cggagnaagg cgccgagact gacaacgcgg tcccacagac ttttatcgga cgttttcgcc 300
gcatcatgga ctcctcacag aatgcttaca acgaagacac ttcagccctg ggtagccagg 360
ctagacgaga tggagagggg cttatttcaa acagggcaga aaggactgaa tgactttcag 420
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```
tgttgggaga aggggcaggc ttctcagatc acagcttcca acctcgttca gaattaa    477
```

<210> 41
<211> 860
<212> DNA
<213> Homo sapiens

<400> 41
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ggcgacgagc tcgtgccgaa tcggcactag tggaggatgg gcttctcgag ggttctctgc 60
ttcactaact cccgagagaa ctcccacagg ctcttcctgc tggtgcaagc ttttgggggt 120
gtggacgtgg ctgagttctc ctcgcgctac gggcctggcc agaggaggat gatcctgaag 180
cagtttgaac aggggaagat ccagctgctc atcagcacgg acgccaccgc gcgaggcwtc 240
gacgtgcagg tgtggagct ggtggtgaac tacgacgccc cccagtacct gagaacctac 300
gtgcaccggg ttgggaggac agctcgcgct gggaaaactg gacaggcctt cacactgctc 360
ctgaaagtgc aggagaggag attcctccga atgctaactg aagctggggc acctgagttg 420
cagcggcacg agctctccag caagctgctg cagccgctgg ttcctcggta cgaggaggcc 480
ctgtcccagc tggaggagtc tgtcaaggaa gagcrcaagc agagggcggc ctargctggg 540
gctcaaaggg ccggagggac tkaacgctca ccaccctgac cctycttyca gagcagtgct 600
gatcactgga tcctgtatgt gaggaaagga atcccccagt ggacacagcc ttcctcccca 660
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gagacttcag ggcttgtcac tttcagagtg tggaggtcag gatggctgcg ggcaatgaag 780
ccttagtaaa acggtgaaaa gtactcccag acggacgcgg gcacccgtca tgctttgct 840
gagagttggg ggcattaacc                                             860
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<210> 42
<211> 1131
<212> DNA
<213> Homo sapiens

<400> 42
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aaactagtgg atcccccggg ctgcaggaat tcggcacgag cagcatcagc cttagaacaa 60
gaaccttacc ttcaaggagc aagtgaagaa ctctgtgaag gatggaactt tcagatatca 120
actatttaga gtccagaggg agccatggca ctagaaatag ttgataatga aatgagattt 180
tatgaagtat accgctccac ctatgagcgt ctgtctctgt gggcttggga tgttaacagg 240
agccaaaagg agggaaagtg tgaagaataa agtagatctg agaaattctg agccaatcag 300
gcttcttaat tcaagagaca aaccaagacg ttctgtcaac tgtgctgtgc tcttctttaa 360
gccaatgaac cccaattcct ggcagtctac aagaagtctc ttaatgctaa tgaagaattt 420
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aacaatggta tctctgaaac tcacaaccta agcccaatc ttgaaatat gttgtgcacc 540
aagacgactg cttcagcttc ttctcttatc cttactttct ttaatagata tttattaaac 600
tgtccagtga aaaggtgcca caatgcccag tattgtaaac aacaggtttg cattcatgaa 660
gctttcattc attctggagt ctactaattt acctgaatgg tgtttgcatt ctgtgaaatg 720
cctctccacg ttgcatatgt cacactttg tctgcacata actcttttt cacaagaagg 780
gtcactgcca caacagcaca gtcagcgggt gaattacagg tgcctgctgc ctgcctacct 840
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atgtcagtga ccagatttgt ggcttataaa cattagcagt ttatttatgt tttaagatgc 960
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tatcaaagat gaccttataa tatgtacccg aatatacagt tcaagaattt tgtctgactg 1080
gaaataaatg cattttgtag caaaaaaaaa aaaaamaaa aaaaaaaaa a             1131
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<210> 43

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<211> 1334
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1019)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1204)
<223> n equals a,t,g, or c

<400> 43
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cctctgggcc agctgcccgc cctgcagtgg aaggaaaggg cccccagcag ctctgacact 120
gccccgggtg caatgccgag cctctcggta cccgatcgcc gtggattgct cctggaccct 180
gccgcctgct ccaaactcca ccagccccgt gtccttcatt gccacgtaca ggctcggcat 240
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catcacggat gtccagctgt tctccatggc tccctacgtg ctcaatgtca ccgccgtcca 360
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aggcataatt aaac                                                 1334

<210> 44
<211> 2351
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (2324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2331)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2350)
<223> n equals a,t,g, or c

<400> 44
gaacatttgg ggcagggggt aaattttgcc agtttgagca tcatgaggtg taacaagaaa 60
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gcactattgc tattccgtgc aaacaaaact cagctttttcc tgactcagtt ccttgactta 180
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cacctaacag tgaggcagca gctgcccagc cccgcaatgt gcctgctgtc aggcagctct 540
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agatcagttt gtttctttct gtgctggtaa caatgagcgt cgcacagaca tggtttcagg 2280
taaataaatc tattctatga taaaaaaaaa aaaaaaaaa gggnggcccc nctaagggogt 2340
ccaagcttan g                                                      2351
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<210> 45
<211> 1587
<212> DNA
<213> Homo sapiens

<400> 45

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tatttttttg tagagatggg gttgtccagg ctggtctcaa actcctgagc tcaagcaatg 180
tgcccgcctt ggcttcccaa agtgctggga ttataggcgt aaaccactgc acgcagccta 240
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tcctgcgaag gaaattccag agcctgtatt taagctacct aggctttttac actcccttta 360
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tttgaaattt ataatggtct ctgatatgat tcgaattttg gtaacttttg aaagttattt 1260
tcccccttta gtcatggatt tctatttgtt ttttaatgtt aattttctta gaaagcatct 1320
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caaaaaaaca aaaaaaaaa aaaaaaa                                     1587
```

<210> 46
<211> 379
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)

<223> n equals a,t,g, or c

<400> 46
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gccaccttgt gaagaaggtg ccttggttcc cctttacctt caaccatgac tgtaaatttc 180
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acccagtctc gggcagtttt cttatagcag tatgagaatg gacttaataa aggtaggttt 300
aaaaagtatg gctkgggcat tgtagctcaa cacctgtagg tcaanagcta nctttgggtg 360
ggctgaggca ggagggacg   379

<210> 47
<211> 1920
<212> DNA
<213> Homo sapiens

<400> 47
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atggccaagc tgtgtgaaga aataggaaag aagaagttac cattaaccaa ggatatgaga 120
gaacaaggag ttaaaagcaa tccatgtgac tcaagccttt cacatactga cagatggtat 180
ctgccagtct cttcaaccct cttctcactt tttaaaatct tgttccatgc ctccaggttt 240
atctttgtct tatctaccag tttattcctg tgaacttcag attgaaccat tcattgcagc 300
agtagcctta aaaaggcttt tgtttatttc tttggtttgt taactagtgt catctattta 360
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ctaaaactat ggagaaactt tgtatgtgca cacaaaagta ttcaagagac agtattgcta 480
acatctcatc ttaatgtctt ttgttattga gaagttttag gtgcttcaaa acaatataaa 540
tggataatag ttgttatttg gggaattgta atgatgttgg tgctgcttcc ttctaagagc 600
tcagacaagt aaagtatgaa acattcttat ttcagttaga tggggaacat tttgctagcc 660
cattagaagc acacagaatt atccttgtcc tcctaatatt gactttcagg aataaagttc 720
agtgtgctga tcattcacaa tacagtggat agcttgatat cttctgtttt cccattgcag 780
ttgatttgag aagatgaagg tttaaatatt gttgaaagtt gcagtttttt aaatgtgttc 840
ctttttcttc tgtgaatatt tagggcaatc gtgtcgctaa tagaatatgt agtagagggg 900
gtggggaggt aaaattcctct gacttgccaa agaaaaagaa gggaaccaca gtggatatgc 960
tagcatttta gctgtgcaaa gggaggtagt gtgggaaaag tgtttccatt ctgggaaaag 1020
cccaaaccga atacggtcag cagtcaactc cagggtttgg gcttgattcc tgttgaataa 1080
tagttttgag cattctttgt ggttaaataa attcttaaat ctgcctagtt ttgatgaatt 1140
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taacaaccat ttaactgcag tgtaagaaaa ttggactgta atcatatcgc tactggcatc 1260
tgttatctag tatgcatttc tggtgtgtat ctgaaaggaa gacattttct accctagatc 1320
caattgcatt tatttatcaa taagtgccat taaattgaaa ttatattaca ttttacactt 1380
tctcaatgaa tgaacaaatt agtctgtaga atctagccac ctgtttagcc tagtcatgtg 1440
ccttgaacat atatgtgtcc cataatctgg ctcatggtac ctgttcttct atccaaacct 1500
ttcaattcat gctacctgat tcatttattt gacatagatc ttaggcccac ttgaactctt 1560
ttcttgttta tctagcatag cacaaacgtt tttccagtct tctttatcaa cactaatgcc 1620
tcttaattgc atcagtattt cctattggaa aatacatctg ttccagaaaa acatttggca 1680
ttcctgaata atttccaaat gttttaatc caaagaaaaa ggtttaaagc ttatttccct 1740
ttcttataca cacctgaata aaattgatgt gcatgtttta gggatcaatt acctaactgt 1800
tccttggtct atttatgtat aagaatgctt tttaaagcac atgtctcatt ttaaatgacg 1860
cacaaactga agatgttaat aaaatttaag agtaatacaa aaaaaaaaaa aaaaaaaaaa 1920

<210> 48

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<211> 319
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (306)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<400> 48
ggcacgagcc agaacaaaaa gtacaatagc tgttgctcaa ttgctagtca aataacttag 60
cactggggaa ttccmgatgt tacttaggga attttatact ggtgcatctc aataaagaac 120
tgaaagtaag cacaagaaga aaaaaagcct tatctttgct ctagattttg caaaggggaa 180
atttcaacag aacgcaatca ttgctacacg tctgccaaga cacaaggctt gggcgatctt 240
tttttgttca tttgttttgg atacttagct agttttttcct aaatgtatac cattggaggg 300
ggatanctgg gcctttngg                                             319

<210> 49
<211> 278
<212> DNA
<213> Homo sapiens

<400> 49
gacggatgaa gagatcgcgg cggtggagcc gttacaaagc gttgaacgcc ggacgtacca 60
gtaagcgtat tcataaaggc ctggtggtgc gtaaaggctg gctgggtaaa ctgccttcat 120
taccgcttcg ctggcgggcg cgtggagtga tgaccctrat gtttatcttg ctggcggcca 180
tgctttggtt tgttgctgcc ccggtggtga cgtatatcct ctgtgcgtta gtggtattgt 240
tggcagcgcc tgttttgaat ggcagattgt acgcccgt                        278

<210> 50
<211> 652
<212> DNA
<213> Homo sapiens

<400> 50
ctttctcacc actctcctgc tagccatctc tttggcacta aggccctggt caaattggat 60
ttctttcatt tttccacact tcaaagaccc atgttctagg tattctccat agggatagtc 120
tctttggcat ttatttggtt tttctacgtt ttcagtccca tttactccaa gactcactcc 180
ctgccaccta gtgcatcaga tacagctact tctggctgac ttttcaaggg ggaccaccct 240
acctgtcatc tcttcactgt tcagaaatga ctgtgtcagt ggcacctcaa actcccttgc 300
tgtcctttc caaggagaca gctaaggtgg atggagatgc agaatggacc tcacgttcgc 360
cctagtcagg actgataccc tttccgtttc agaggattgc caagaaaaaa ctcacagttg 420
aggcagggtg ctctgaggtc ggctgcggtg tgggaggcac gsctgggcmt gctctctggg 480
ctggagcagg tggattcgaa ggcctgtcta gcacgagggc ccaaaggtct tgtcagtggc 540
cagtagctct gccgcctttc ccagagaggg ggtccagggg acatcctgga aggctgggcc 600
ctgggccacc ttctgctctt gcaagctaga gccagcccaa tagggggcgg at          652
```

```
<210> 51
<211> 943
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (843)
<223> n equals a,t,g, or c

<400> 51
gctttgcaac agatcgcttc ttcaaatgct ggcacaacgc ccagagctcg atgagagaac 60
agcccatctt caccacccga gcgcatgtct tccagattga ccccaacacc aagaagaact 120
ggatgcctgc gagcaagcan gcggtcaccg tttcctactt ctatgatgtc acaaggaaca 180
gctatcggat catcagtgtg gacggagcca aggtgatcat aaacagcaca atcacaccga 240
atatgacctt caccaaaacg tcacagaagt ttgggcagtg ggccgacagc agagccaaca 300
cagtgtttgg tttggggttt tcctctgagc agcagctgac aaagtttgca gagaaattcc 360
aggaggtgaa agaagctgcc aagatagcca aagacaagac gcaggagaaa atcgagacct 420
caagtaatca ttcccaagca tccagtgtca acgrgacgga cgatgaaaag gcctctcacg 480
ccggtccagc caacacacac ctgaagtctg agaatgacaa gctgaagatt gccttgacgc 540
agagcgcacc aacgtgaaga agtgggagat cgagctgcag acccttcggg agagcaatgc 600
acggctgacc acagcactgc aggagtcggc agccagtgtg gagcagtgga agaggcagtt 660
ctccatctgc cgtgatgaga atgaccggct ccgcaacaag attgatgagc tgggaagaac 720
aatgcagtga gatcaacaga gagaaggaga agaacacgca gctgraagag gaggatcgag 780
gagctnggag gcagagctcc gagaaaagga gacagagctg gaaagatctt ccggaaaaca 840
aantggaatc mtacytscag ctcctgttca gattgcggat tttgtctctt gagaagctag 900
aggcgggcag agagagacat tcaaaacttg gaagacaaat gcg                   943

<210> 52
<211> 832
<212> DNA
<213> Homo sapiens

<400> 52
gcgtcgacat agaattgaag ttgctcgtca gctgattgaa gataaggaga ttggcctgga 60
ttatccaggt aggctcaatg taatcaggaa gggcctttaa agtgagagag ggasgsagaa 120
gaggaagtca gagcgatgtg ctgtgaaatc tactaccgtt tgctggtttt gaaaatggag 180
aaaaagagtg aggaactgag aaacatggat ggccttggga acgtggaaaa gggtcactga 240
aatgggacga catgaactca aggaggctat ttatgaccat gtcatttgca acatgaagaa 300
agcttatctg gagtgaaagt aaatgagacc aacagagatr agagacccgg agaaatcctg 360
```

```
gttacactgc ttgaatcctg tcagtcctat actggagtcc tgttaataca aaataatagt 420
aataatccct ctgtttctta tgtttatgcc aacttcaaca aaaagaaact tgactaagag 480
acaatataag aayttaatgt gtaattaaga aagaactctc caccacgggg aatgtgaaag 540
gtatatgagt cccttttcac gatgcgatgt catgtctttt aaataagcca tactttatgt 600
tcaataaaaa gagaataagc aggattcgcm agagaacaca atccctttt aactgctggg 660
aagatacytt tagtcattaa tgrctggacg acaatttggg rcacmtatat ggatattggc 720
cggtttgtga tgatgtgatt gggcctctaa gtgacaacat tgttccctgt atagagtgag 780
tggcaagtgc atttataaaa ttggccatca tggctgttaa atttaaaaaa aa        832
```

```
<210> 53
<211> 1554
<212> DNA
<213> Homo sapiens
```

```
<400> 53
agcgggcctg gagttcagtg ggtgcagcct gcttgcragc tgaggccaga caggggggcg 60
cctacggacg gawaaggagg agcattgcag gccgagacgc cctcatcagc agagtcacag 120
gagttttggg aagtgaagag aaaagaaaag ttgattacaa acgggaccat attttgcttc 180
gaaatggaac cagcagttag cgagccaatg agagaccaag tcgcacggac tcatttgaca 240
gaggacactc ccaaagtgaa tgctgacata gaaaaggtta accmgaatca ggccmagaga 300
tgcacagtga tcggtggctc tggattcctg gggcagcaca tggtggagca gttgctggca 360
agaggatatg ctgtcaatgt atttgatatc cagcaagggt ttgataatcc ccaggtgcgg 420
ttctttctgg gtgacctctg cagccgacag gatctgtacc cagctctgaa aggtgtaaac 480
acagttttcc actgtgcgtc accccacca tccagtaaca acaaggagct cttttataga 540
gtgaattaca ttggcaccaa gaatgtcatt gaaacttgca aagaggctgg ggttcagaaa 600
ctcattttaa ccagcagtgc cagtgtcatc tttgagggcg tcgatatcaa gaatggaact 660
gaagaccttc cctatgccat gaaacccatt gactactaca cagagactaa gatcttacag 720
gagagggcag ttctgggcgc caacgatcct gagaagaatt tcttaaccac agccatccgc 780
cctcatggca ttttcggccc aagggacccg cagttggtac ccatcctcat cgaggcagcc 840
aggaacggca agatgaagtt cgtgattgga aatgggaaga acttggtgga cttcacctt 900
gtggagaacg tggtccatgg acacatcctg gcggcagagc agctctcccg agactcgaca 960
ctgggtggga aggcatttca catcaccaat gatgagccca tcccttctg gacattcctg 1020
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gcctactacc tggccctcct gctatccctg ctggtgatgg tgatcagtcc tgtcatccag 1140
ctgcagccca ccttcacacc catgcgggtc gcactggctg gcacattcca ctactacagc 1200
tgcgagagag ccaaaaaggc catgggctac cagccactag tgaccatgga tgatgctatg 1260
gagaggaccg tgcagagctt cgccacctg cggagggtca agtgagggac actggaggct 1320
gggctctctc gacacgttgc tcagccagtc actccttccc ctgtggattg atgaaataac 1380
atcctttgaa tgagtttgct ctgagcctgt gactccttct gctaggcaga gagcgcaccc 1440
tactctttcc gtgacgatga gggcggcaaa aacagacatt tcttccttca tggaactgga 1500
tttggatttc ttgaagcagg cagcttcata ttataccgat ttgttctctg tcaa        1554
```

```
<210> 54
<211> 281
<212> DNA
<213> Homo sapiens
```

```
<400> 54
agctatttac aggttttaag caaatgatta tgtctgtgtt ttaaaggtat tatattctag 60
atgcttcatg gaattacgtc atttatactt tataaatcta taatgtgtam tgaattaaaa 120
acaagcttgg gaaacataaa ctcaagttag aaaatatggg tttgacataa aaccttaaat 180
```

```
atgtttcatt tgtttgcttg tttggcttgt ttgtttctaa cacaagttta acctacatgt 240
gagtcacctt tgggattgat gagtctagrg tttgaaacca g                     281
```

<210> 55
<211> 807
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (770)
<223> n equals a,t,g, or c

<400> 55

```
gcgtcgaccg gagagctgtg tcaccatgtg ggtcggttgt cttcctcacc ctgtccgtga 60
cgtggattgg tgagaggggc catggttggg gggatgcagg agagggagcc agccctgact 120
gtcaagctga ggctctttyc cccccaaccc agcaccccag cccagacagg gagctgggct 180
cttttctgtc tctcccagcc ccactccaag cccatrcccc cagcccctcc atattgcaac 240
agtcctcact cccacaccag gtccccgctc cctcccactt acsccagarc tttctcccca 300
ttgcccagcc aactccctgc tcccagctgc tttactaaag gggaagttcc tgggcatctc 360
cgtgtttctc tttgtggggc tcaaaacctc caaggacctc tctcaatgcc attggttcct 420
tggaccgtat cactggtcca cctcctgagc ccctcaatcc tatcacagtc tactgacttt 480
tcccattcag ctgtgagtgt ccaaccctat cccagagacc ttgatgcttg gcctcccaat 540
cttgccctag gatacccaga tgccaaccag acacctcctt cttcctagcc aggctatctg 600
gcctgagaca acaaatgggt ccctcagtct ggcaatggga ctctgagaac tcctcattcc 660
ytgactctta gccccagact cttcattcag tggcccacat tttccttagg aaaaacatga 720
gcatccccag ccacaactgc cagctctctg attccccaaa tctgcatccn tcttcaaaac 780
ctaaaaaaaa aagaaaaaaa aagtcga                                    807
```

<210> 56
<211> 656
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (545)
<223> n equals a,t,g, or c

<400> 56

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gaccctctca caccaggtta cccagcaaat gaatatgctt ataggcgtgg aattgcagag 60
gctgttggtc tgccaagtat tcctgttcat ccaattggat actatgcatg cacagaagct 120
cctagwaaaa atgggtggct cagcaccacc agatagcagc tggagaggaa gtctcaaagt 180
gccctacaat gttggacctg ctttactgg aaacttttct acacaaaaag tcaagatgca 240
catccactct accaatgaag tgacaagaat ttacaatgtg ataggtactc tcagaggagc 300
agtggaacca gacagatatg tcattctggg aggtcaccgg gactcatggg tgtytggtgg 360
tattgaccct cagagtggag cagctgttgt tcatgaaatt gtgaggagct ttggaacact 420
gaaaaaggaa gggtggagac ctagaagaac aattttgttt gcaagctggg atgcagaaga 480
atttggtctt cttggttcta ctgagtgggc agaggrgrat tcaagactcc ttcaagagcg 540
tggcntgggc tttatattaa atgctgactc atctatagga aggaaactac actctgagga 600
gttggattgt acaccgcttg atgtacagct tggtacacaa ccttaccaaa gagctg      656
```

```
<210> 57
<211> 794
<212> DNA
<213> Homo sapiens

<400> 57
gcggccgcag gcagcccacc ccgyccacgt cgccggagcc gccgcgcagc agccccaggc 60
agaccccgc gcccggcccc gcccgggaga agagcgccgg caagaggggc ccggaccgcg 120
gcagccccga gtaccggcag cggcgcgagc gcaacaacat cgccgtgcgc aagagccgcg 180
acaaggccaa gcggcgcaac caggagatgc agcagaagtt ggtggagctg tcggctgaga 240
acgagaagct gcaccagcgc gtggagcagc tcacgcggga cctggccggc ctccggcagt 300
tcttcaagca gctgcccagc ccgcccttcc tgccggccgc cgggacagca gactgccggt 360
aacgcgcggc cggggcggga gagactcagc aacgacccat acctcagacc cgacggcccg 420
gagcggagcg cgccctgccc tggcgcagcc agagccgccg ggtgcccgct gcagtttctt 480
gggacatagg agcgcaaaga agctacagcc tggacttacc accactaaac tgcgagagaa 540
gctaaacgtg tttattttcc cttaaattat ttttgtaatg gtagcttttt ctacatctta 600
ctcctgttga tgcagctaag gtacatttgt aaaaagaaaa aaaaccagac ttttcagaca 660
aacccctttgt attgtagata agaggaaaag actgagcatg ctcactttt tatattaatt 720
tttacagtat ttgtaagaat aaagcagcat ttgaaatcgc aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaa                                                   794


<210> 58
<211> 1155
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c


<400> 58
aaaaagccag aagatgaaat tgctagttca aagttgttgg attgctagtc atgtcatgag 60
gatcagaagg ttgagatttt tgtagaagct tagaccagtg tgatagtagt gattggatca 120
agacgtttgc aaaanggact aggctcatag taacttcgcc tgataaacaa cttgatgcag 180
atgtttcccc caagcccact attttcttcc ttcrattgct gaaacaaarc tccagaaggc 240
tggaacatac ctttgtcttc ttgagaaatt tttcccwgat rttattaaga tacattggsa 300
agaaaagaag agcaacacga ttctgggatc ccaggagggg gaacaccatg gaagactaac 360
gacacataca tgaaatttag ctggttaacg gtgccagaaa agtcactgga caaagaacac 420
agatgtatcg tncagacatg agnaataata aaaacggrgt tgatcaagaa attatctttc 480
```

```
ctccaataaa gacagatgtc atcacaatgg atcccaaaga caattgttca aaagatgcaa 540
atgatacact actgctgcag ctcacaaaca cctctgcata ttacatgtac ctcctcctgc 600
tcctcaagag tgtggtctat tttgccatca tcacctgctg tctgcttaga agaacggctt 660
tctgctgcaa tggagagaaa tcataacaga cggtggcaca aggaggccat cttttcctca 720
tcggttattg tccctagaag cgtcttctga ggatctagtt gggctttctt tctgggtttg 780
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agcaccaatc tctccatgtt ttccacagct cctccagcca acccaaatag cgcctgctat 960
agtgtagaca tcctgcggct tctagccttg tccctctctt agtgttcttt aatcagataa 1020
ctgcctggaa gcctttcatt ttacacgccc tgaagcagtc ttctttgcta gttgaattat 1080
gtggtgtgtt tttccgtaat aagcaaaata aatttaaaaa aatgaaaarw aaamaaaaaa 1140
aaaaaaaaaa aaaaa                                                  1155
```

<210> 59
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (467)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (473)
<223> n equals a,t,g, or c

<400> 59
```
ggcacgagtg caggggtcaa cccttataaa tgcagtcaat gtgagaaatc cttcagtggg 60
aaattacgcc ttcttgtaca ccagagaatg cacacaagag agaaaccata tgaatgcagt 120
gagtgtggaa aagccttcat taggaattct caactcattg tacatcaaag aactcattca 180
ggagagaaac cctatgggtg ncaatgaatg tgggaaaacc ttctctcaaa aatcaattct 240
cagtrcacat cagagaacac atacaggaga gaagccttgt aagtgcactg aatgtgggaa 300
agcctttgt tggaagtcac agctcattat gcatcagaga actcatgtag rtgacaaaca 360
ttgataattt tacgaaactc tgaaaagtgg attcacaaga gatagaaaca atcatatata 420
aagagaaact ctgtaatggg aatcatcttg tccntcttcc agaaaantca tantgaatag 480
aaactttatg ga                                                    492
```

<210> 60
<211> 1617

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1590)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1592)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1595)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1617)
<223> n equals a,t,g, or c

<400> 60
ggaggccctg cgagaggact gtgcggccca ggcacagcgg gcacagcggg cccaacagwt  60
gctgcagctg caggtgttcc agctgcacag gagaagcggc aattgcagga cgacttcgca  120
cagctgctgc aggagcgcga acagctggag cggcgctgcg ccaccttgga gcgggacagc  180
gggagctcgg gccgaggctt gaggagacca agtgggaggt gtgccagaaa tcaggcgaga  240
tctccctgct gaagcagcag ctgaaagagt ctcaggcaga gctggtgcag aagggcagcg  300
agctggtggc tctgcgggtg gcgctgcggg aggcccgtgc tacgctgcgg gtcagtgagg  360
gccgtgcgcg gggtctacag gaggccgccc gagctcggga gctggagctg gaagcctgtt  420
cccaggagct gcagcgacac cgccaggaag ctgagcagct gcgggagaaa gctgggcagt  480
tggatgctga ggcggccgga ctccgggagc ccctgtgcc acctgccacc gctgacccat  540
tcctcctggc agagagtgat gaggccaaag tgcagcgggc agcagccggg gttgggggca  600
gcttgcgggc ccaggtggag cgattgcggg tggagctgca gcgggagcgg cggcggggtg  660
aggagcagcg ggacagcttt gagggggagc ggctggcctg gcaggcagag aaggagcagg  720
tgatccgcta ccagaagcag ctgcagcaca actacatcca gatgtaccgg cgcaaccggc  780
agctagagca ggagctgcag cagctcagcc tggagctgga ggcccgggag ctcgctgacc  840
tgggcctggc cgagcagccc cctgcatctg cctggaggag atcactgcta ctgagatcta  900
gggccctcag caaccagctc tgtagggagc tctgccagag gggcagcagc tgcagatcca  960
cttaggcccc agggtccacg gatggcccca aaggctgagg gccccaaagc cacttgtctc  1020
ctaggatcca ggcctctggg cttctgccaa gaactcaggg tggccctatg acttggagga  1080
gcaagatcag accgctcaaa ggtccccgtg ttcactgtta cccagaggct cttgttacta  1140
cccacttcat tccccaccgc tgccagtgcc actgccaacc ctgttcacag gcgcttccag  1200
cccactccag ccaggggagc agggaagaag aaggggctcc ctcctcttca cattcccccc  1260
gaccccaaag ccagagaaag ccagatggca ccagctgctc cggatgtgcc tgcccacatt  1320
gggggacagg gccgggcctg ggctcggttc ccaggtttga gctctgcagc ctctctcctg  1380
gagtgagggg gctgaagtca gaccaaagga agaactcaga aatgtcttgt ttatttgtgt  1440
ttgtgaccaa gcagcctctc ccttcaccca ggttatggc tcgttttca cttgtatatt  1500
tttcacactg taaatttctt gtacaaaccc aaagaaaaaa ttaaaaaaaa ttttttttgtt  1560
taaaaaaaaa aaaaaaaaaa aaaaaaaan cncgnggggg ggcccggtac ccaattn      1617
```

```
<210> 61
<211> 1653
<212> DNA
<213> Homo sapiens

<400> 61
aaatatgaga attttaaagt aatatattga tyaaagatca ctgatgatat agatataata  60
tatcataaca gaaggaaagt aaatggactt gagcttaact tctcaccctg gaattattag 120
tgggtgaaga ggggaatcat tagcattctg ggcgttttta tattaaatgt tttgtgaata 180
tgccagaaga tctgccttca acttgtaatt aggcaagata gtaaygcttg atggtaactt 240
ctatgtttgt gtagaaataa taccagttag ttttggaaag ccattcagat ccattcaaaa 300
attccataaa gtatgatgta tgctttggaa gagggatatg agtgatacaa ttgttatata 360
aatggaatag acaaaccatt tgaatgcatt tttctagggc aaacattttt tgagattttt 420
gagttaagaa gattttttcgg cttgagcaga agatgtgttt gttttgcatt tttcagctcc 480
aaggaaatag ccccccatggc tttaaaaggc cctgaagttc agatagtagt aggtagtgtt 540
ttgttattgt tttaatttga gagttgcagg aataatgggc agagctgtca tttgccggta 600
ckaccatctg cctacataga attattggac tgtaagctaa aacagactgt aaaagaccta 660
cttgctaaag cattgcttat tcagtggtat tcagtagata agatctattt cctgatatat 720
tgtgctcaag ttatttgcac atcttaagaa acttttaata tctaaaacca ttgttgtaag 780
atttaggtag aggaggtttc cttttgtgtg atgcataata atagaaaaca ctgatacagt 840
gtttactatg tgccaagcaa gcatatgata actaattctt aacaactcta tgaggcaggt 900
tcatttatta tcctgttgtc atatgaggaa atctcgccag agagaagtta attaacctgc 960
ccaaggtcgt atagttagta aagtggtcat gcttggattt taacctaggc agattacttc 1020
agagtcagcg tctgccttac tatcctgttt cctgagcagg aatttcccct tgtgtcaggc 1080
aacactaggt gttaggagtg gaggtgtgca gatgttgcct tacattctgt tttcctgatg 1140
tggtgtgctt cctaagagta caaacctgag catatgtcca ggcttgcaaa gtctcaggca 1200
aagctgggac taaggcttgt gtttcctgcc ttgggtagga ttttcttcta tgcatgttgg 1260
gtgcttctca cttaacctaa tagtatgcct tgtctgtttt ccccccttcc ccttttttgtt 1320
taaattgatt cacagaacac aaaaatttac taggtatgaa catttgaaaa aatggaatag 1380
agaaaatggt acatcacatg taataaagat aaatattgtt ttgtgaaatg tcttttttcaa 1440
tcataaatat gtgttgtgtg ctatataaaa ctatttctta ttgtggatat tgaagtttga 1500
agcctgttgt tcatctatag atgcactgga tgggattgga agtcttcaga tttcagtagg 1560
gttttccaca agcttatgaa gacattgttc tgtttaggct gtaaactgtt tttatttctt 1620
gatgaaaaat gttcttctat ttatatgatc cca                               1653

<210> 62
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c

<400> 62
gaattcggca gaggaataaa taatttatta tatggtaaag gtggcatttc aaatcaatgg 60
gaaaaggtac gtttattgac aaaggtattg aagcaacggg ttaagatttg gaaaataact 120
atctctgctc ccaaacattc accatatgag actgtagacc taataaaaat aaacataaga 180
ttatgagaat aaaatatcaa taaatatttt atactatctt gcagtgggat aggaattgtc 240
tcactcctgc tggggtgact ccccatgaac cccagggctc ttcagttcca aagrggaaaa 300
aggggaacag atggcctcct ccccttcctc actcccctgg gacccaggat tgctccctga 360
aggttttcga gccaccctcc ttcccattcc tcctgggggg ccaaggangn ttaaacagca 420
gggcccttcc ngtgttgccc                                            440


<210> 63
<211> 1062
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (948)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (974)
<223> n equals a,t,g, or c


<400> 63
aattcggcac gagggaacct tgaaccagcc rctgaccaaa ttggatagat cttctgaaga 60
gcctttggga gttctggtaa atcccaacat gtaccagtcc cctccccagt gggttgacca 120
cacaggtgca gcctcacaga agaaggcttt ccgttcttca ggatttggac tagagttcaa 180
ctcatttcag caccagttgc gaatccagga tcaagaattt caggaaggct ttgatggtgg 240
ctggtgcctc tctgtacatc agccctgggs ttctctgctt gtcagaggga ttaaaagggt 300
ggagggcaga tcctggtaca cccccacag aggacgactt tggatagcag ccacagctaa 360
aaaaccctcc cctcaagaag tctcagaact ccaggctaca tatcgtcttc ttcgtgggaa 420
agatgtggaa tttcctaatg actatccgtc agttgtcttc tgggctgtgt ggacctaatt 480
gactgcttgt cccagaagca atttaaggag cagtttccag acatcagtca agaatctgat 540
tctccatttg ttttcatctg caaaaatcct caggaaatgg ttgtgaagtt tcctattaaa 600
ggaaatccaa aaatctggaa attggattcc aagatccatc aaggagcaaa gaaggggtta 660
atgaagcaga ataaagctgt ctgacccagg agaaaaggaa ctatacagca tagtggagtt 720
ttgtgtacta aaattgctat ctactggtcc tttggaattg aagtagtaga aacctaaagg 780
cttggcgtca ggcttgaata tctcagaact taaactctta ccaaaatctg tatatttttc 840
ttaaggagtg ggattcctac tttatgtaat ggggtcgaaa tctttgaaca cattatttat 900
aaaaacctgt ttaaaaggtc gacggtatcg ataagcttgg atatcgantt cggcacgagc 960
ccacctctac ctcngggggg accggcctgg acgctggtgg ccccgggacc cagcagagct 1020
gggggaaggg tcagcccccc aaagaaatgg gggtgcatgc tg            1062


<210> 64
```

```
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<400> 64
ggcagaggga agaggaaggg aggggagggg agccccttct tcctggtaga tacaaagctg 60
ggctctggat acccttgaag cagtgcacag cctgtacaac agtccccagc agccctgtct 120
atcccccagc atctccctgc tagctgctgt tccctctcct cccgctggct gggcctgctg 180
ccaagctgtg gtgactcagc tgagctggca cattgacccc agcttattgt ttaaaaacca 240
gcccgactgg gnaatttatg gtttcctatc cccttccaca cattttctg gccacaaggc 300
aagaaactta tctctggcat cttcagattt cttstatttw attttgggnc ttcccttgcc 360
tggcaatatg tttcatagag tgggtaagtg agacctgaca ggtgttttca aggataattt 420
ca                                                              422

<210> 65
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (674)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (692)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (697)
<223> n equals a,t,g, or c

<400> 65
aattcggcag agcgcttctc cattctctgt gggttgtgtt gttttcttca tgaattccga 60
```

```
agtttactct tggatgatct agttgaagag ctagtgttta ctgatcacac tgtcttctct 120
ccttgaaatt ggtgcatatt agctgcttct agtcagccct cttgcccaga atccccaaaa 180
agaaaattgt tagttcaggg attgtagctt ttttttttgtt ttaacatgag atatgtgatt 240
ataataaact tcaagtattc aggaccattt tatggataaa aggagaatct aacttttaaa 300
agttgggaaa atgatttaat attggaaact caagagttac aaattcttac agttatttca 360
aaactaaagg tttctttaga gctccaaatt tagagctata aatcctatat ccgtaatcaa 420
atccagtact gataacaatg aacaattgct gaagagtaat attctctctc tctttaccaa 480
tgtaagcctt agcattggta ctttcttgwa wtatcttttt gcatgccatt atgatcagaa 540
aaaacaaaaa gctacccaga aagggcagcc acattctaaa tgataggctt ttacctccct 600
gagggggctg ctaggtacct acctggatta ggaattcatt tggtaaacaa caggggggcct 660
tttaaatcta aatnaccatt tccnaataat tngtttnccg tttattccg         709
```

```
<210> 66
<211> 1302
<212> DNA
<213> Homo sapiens
```

```
<400> 66
gctcgacaag aagagaaaga aggacatgct gaatagcaaa accaaaactc agtatttcca 60
ccaggaaaaa tggatctatg ttcacaaagg aagtactama gagcgccatg gatattgcac 120
cctgggggraa gctttcaaca gactggactt ctcaactgcm attctggatt ccagaagatt 180
taactacgtg gtccggctgt tggagctgat agcaaagtca cagctcacat ccctgagtgg 240
catcgcccaa aagaacttca tgaatatttt ggaaaaagtg gtactgaaag tccttgaaga 300
ccagcaaaac attagactaa taagggaact actccagacc ctctacacat ccttatgtac 360
actggtccaa agagtcggca agtctgtgct ggtcgggaac attaacatgt gggtgtatcg 420
gatggagacg attctccact ggcagcagca gctgaacaac attcagatca ccaggcctgc 480
cttcaaaggc ctcaccttca ctgacctgcc tttgtgccta caactgaaca tcatgcagag 540
gctgagcgac gggcgggacc tggtcagcct gggccagctg cccccgacct gcacgtgctc 600
agcgaagacc ggctgctgtg gaagaaactc tgccagtacc acttctccga gcggcagatc 660
cgcaaacgat taattctgtc agacaaaggg cagctggatt ggaagaagat gtatttcaaa 720
cttgtccgat gttacccaag gaaagagcag tatggagata cccttcagct ctgcaaacac 780
tgtcacatcc tttcctggaa gggcactgac catccgtgca ctgccaataa cccagagagc 840
tgctccgttt cactttcacc ccaggacttt atcaacttgt tcaagttctg aatcccagca 900
catgacaaca cttcagaagg gtccccctgc tgactggaga gctgggaata tggcatttgg 960
acacttcatt tgtaaatagt gtacatttta aacattggct cgaaacttca gagataagtc 1020
atggagagga cattggaggg gagaaatgca gttgctgact gggaatttaa gaatgtgaac 1080
ttctcactag aattggtatg gaaaagcaaa atactgtaaa taaacttttt ttctaacaat 1140
ttgccagcaa gactataagg gcaataattc tatttcagcg gtgaaaatgg agtcctctta 1200
atggtcacag aaactctctt atagttccct aggaagaaaa aggcaaaact caaatacaaa 1260
ataggacgct ttgtttacaa tgtgaaaatt tgtttagaaa ag                1302
```

```
<210> 67
<211> 1046
<212> DNA
<213> Homo sapiens
```

```
<400> 67
aattcggcac gagcttctgt tggtgttatt ttcaattcta tttccagtgc cacaatagag 60
tgatatttaa gcaactccta caggcgaagg ccctgcagtt cctccagatt gacagttgca 120
gactgggcag tgtcaatgag aacctctcag tattgctgat ggccaaaaag tttgaaattc 180
ctgtttgccc ccatgctggt ggagttggcc tctgtgaact ggtgcagcac ctgattatat 240
```

```
ttgactacat atcagtttct gcaagccttg aaaataggdt gtgtgagtat gttgaccacc 300
tgcatgagca tttcaagtat cccgtgatga tccagcgggc ttcctacatg cctcccaagg 360
atcccggcta ctcaacagaa atgaaggagg aatctgtaaa gaaacaccag tatccagatg 420
gtgaagtttg gaagaaactc cttcctgctc aagaaaatta agtgctcagc cccaacaact 480
tttttctttc tgaagtgaaa gggcttaaaa tttcttggaa atagttttac aaaaatggat 540
ttaaaaaatc ctaccgatca agatgagttc agctagaagt cataccaccc tcaggaatca 600
gctaagtaat tattacttga ttcttttagc aaatcaatgc acgttatcct acttaatcct 660
taaataagtt tagatttaac taacccaaag tccaggagga tgttcttaca aaaatagcta 720
tatcaagggc tggcacctag acattaaact gtaatttgaa aataagcaac atgttgcata 780
acttgttgga ataattcctt gttctgttta acacttgtca taaattagca gaataaaaat 840
agtcgtgcaa caccggggggt atctggtatg caacgaaggg raaaatattt cactgattaa 900
ccccgaagtg gttttgcatc ttttccttgc ttaatctaag catattatta gagaagtcac 960
accatgctga agctaatgag ggcaaaatgg tagtccatag attattttaa aataaccctt 1020
taaggttata aaagtttaaa aaaaaa                                      1046
```

<210> 68
<211> 501
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<400> 68
```
caagagaaga aattatgaaa gggcgtgaat accaagaggc aggtnattgg gggccatctc 60
agaggctgcc caacacaggc tactctttgg cccccgatga ttcatgttcc ttccaaatgc 120
aaaatgcccc gtcccaagat ctccaaaagt cttatcccat tataggatta gctcagagtt 180
cagaacctta tcatctaaag ttccaggtgt aggtaaggct tttgggtgta gttattttat 240
tacagctcct agcacacttc tagtgttata ctaatgcctc ttctgtatag ttcacttgga 300
aataaatgat ntaggtactt tgatccatat ggagttctgt gtaggaagat caacctagat 360
ctgatgttag ctggtaaaca ctgtagtgtt aaaaaggcac tgtnttatga tagctctttt 420
tgacagtgac tgggattatg gggcaaatgg taaatggcat gcaattgaga tcagtattag 480
gttattaatt gaactggaat c                                          501
```

<210> 69
<211> 581
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<400> 69
aattcggcac gagggaaaga aggccatgta ggggcttgct ttagtcatcc actgctaact 60
cattaactat taattcaagc aatatgtatt atagaaccgt tttgtgtagc attggaatat 120
tgtccatttt gtaagtcatt gtgaatgtnc ttaattatca gcttgaaggt atttttgtat 180
taaaagttga cattgaagaa cctaagtgga tgatgggatt tggggccagt agtgaaagta 240
tgtttcctct aaaatatttc cctaaacagt ggtatacatg gttattttat tatgagattt 300
gtatatgtyc tgtgtttctc tgtgaacaat gtttcagtct ctctgtcacc atatgtaagg 360
ggaagtccac aaatatagac tacattgcac aaaactaaaa ttgttaatta caagaaaata 420
taggtgctta ccttttgaag gtttattaat acatatggtt gtcacaatac gtatatatga 480
taaatggtgt acatatacag atgtttatgg tgtataaatt tttctatacc caaaaaaaaa 540
aaaaaaaaaa aaaaaaaaa aaaaagggg gggcccccc a                        581


<210> 70
<211> 1076
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (911)
<223> n equals a,t,g, or c

<400> 70
tccaaacaga gggagcagct atttaagggg agcaggagtg cagaacaaac ragacggcct 60
ggggatacaa ctctggagtc ctctgagaga gccaccaagg aggagcaggg gagcgacggc 120
cggggcagaa gttgagacca cccagcagag gagctaggcc agtccatctg catttgtcac 180
ccaagaactc ttaccatgaa gaccctccta ctgttggcag tgatcatgat ctttggccta 240
ctgcaggccc atgggaattt ggtgaatttc cacagaatga tcaagttgac gacaggaaag 300
gaagccgcac tcagttatgg cttctacggc tgccactgtg gcgtgggtgg cagaggatcc 360
cccaaggatg caacggatcg ctgctgtgtc actcatgact gttgctacaa acgtctggag 420
aaacgtggat gtggcaccaa atttctgagc tacaagtttta gcaactcggg gagcagaatc 480
acctgtgcaa aacaggactc ctgcagaagt caactgtgtg agtgtgataa ggctgctgcc 540
acctgttttg ctagaaacaa gacgacctac aataaaaagt accagtacta ttccaataaa 600
cactgcagag ggagcacccc tcgttgctga gtccctctt ccctggaaac cttccaccca 660
gtgctgaatt tccctctctc ataccctccc tccctaccct aaccaagttc cttggccatg 720
cagaaagcat ccctcaccca tcctagaggc caggcaggag cccttctata cccacccaga 780
atgagacatc cagcagattt ccagccttct actgctctcc tccacctcaa ctccgtgctt 840
aaccaaagaa gctgtactcc ggggggtctc ttctgaataa agcaattagc aaatcawrwa 900
aaaaaaaaaa naaaaaagaa aaaaagtttt ggcctaaatg agtcgtatta cagttgacgc 960
ggccggcgaa tttagtagat ggtgtaattc gacccgagaa attccggaac cggaactctg 1020
aggggtgaca agtttcccca agagcggcgg attaaggctt gggcggacaa agggcg 1076


<210> 71
<211> 376
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<400> 71
gcccacgcgt ccgaggaggg ccgcstttcc ggtctgggtc ccsgagagga ctgccttgct 60
cacctgtccc ctcggcgcgg ccccggggag ctcccgagag gccccmggga tcgctggccc 120
tccgaactcc acagcaatga gcaagttggg caagttcttt aaaggggcg gctcttctaa 180
gagccgagcc gctcccagtc cccaggaggc cctggtccga cttcgggaga ctgaggagat 240
gctgggcaag aaacaagagt acctggaaaa tcgaatccag agagaaatcg ccctggccaa 300
gaagcamggc acgcagarta agcgagggat cwgmacwaaa tagatgnttt gatgcaagag 360
atcacagagc aacagg                                                376

<210> 72
<211> 374
<212> DNA
<213> Homo sapiens

<400> 72
aattcgacsa gccagggcac cctgcccatg tatcccamgc agagggagca gaaccagcgg 60
tgtaactact gtgcttgaca cccagggcag gtcttttttt aactcaccga tcttccatgc 120
aacaaaattg ttttctgtga aaagcaggaa atgaataaca acagcgtagg tactccactt 180
caaatttccc aagaaattca gaagaattgt gaacaagttg ctggtttcac aatactgcaa 240
gacactgcaa gttattccaa gttcctacag gacaacgatg cacaattatt tacttactta 300
tgtttaaata tacctatcag tttgactttc atcctttggt gacattctaa taatttatgt 360
aaataattat tcag                                                  374

<210> 73
<211> 419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<400> 73
aattcggcag agctgcattg tctttttaggg ccaatggact tggaggcata gagattttat 60
aactactgcc agaacccaaa tattgccagt sggcctcttc tgctgctgtt gctagctgtc 120
ttcttctggg ggaaatgggt tgggttctaa atatgaatta acacagggct gtcttcgatg 180
aattcagcac aaaatgttct cagcaattga acactcggag ngaagtgtta ggcatttagt 240
gcagactcat agaatagcag gacagggagg gatttggatc tgggcaagca ggagatggrt 300
atgaacatct gtcttttgag acctgccgag gtggcaatga aggtagaggc ccctgtgttg 360
```

aggtctttat tcaagaggct gtggtccctt tgggacttaa catagcatcc nttagacag   419

<210> 74
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 74
gcaggcgact tgcgagctgg gagcacttta aaacgctttg gattcccccg gcctgggtgg 60
ggagagcgag ctgggtgccc cctagattcc ccgcccccgc acctcatgag ccgaccctcg 120
gctccatgga gccnggcaat tatgccacct tggnatggag ccaaggatat cgaaggcttg 180
ctgggagcgg gagggggcg gaatctggtc gcccactccc ctctgaccag ccacccagcg 240
gcgcctacgc tgatgcctgc tgtcaactat gccccccttgg atctgc   286

<210> 75
<211> 633
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (531)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (570)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (623)
<223> n equals a,t,g, or c

<400> 75
aggtagaaaa gcgagcagcc gtcctttcac agcctcagaa agtgctcgct tcccttcggg 60
ggctttcgcg aatcccgagg caatctcgna ggcggtattt gacctgtcca aagacgactt 120
gatacctcta taatgtaaca gaaaaggtca gaaaatatta agcaagtaga agtgtggagc 180
atattaagca agatgaacat ctcgggaagc agctgtggaa gccctaactc tgcagataca 240
tctagtgact ttaaggacct ttggacaaaa ctaaaagaat gtcatgatag agaagtacaa 300
ggtttacaag taaaagtaac caagctaaaa caggaacgaa tcttagatgc acaaagacta 360
gaagaattct tcaccaaaaa tcaacagctg agggaacagc agaaagtcct tcatgaaacc 420
attaaagttt tagaagatcg gttaagagca ggcttatgtg atcgctgtgc agtaactgaa 480
gaacatatgc ggaaaaaaca gcaagagttt gaaaatattc cggcagcaga ntcttaaact 540
tattaccgaa cttatgaatg gaaaggatan tctaccggga ggaattaaaa gctttctgga 600
caactccgcc ggaattgnga tgntcaccgc ttc                              633


<210> 76
<211> 256
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c


<400> 76
agcacaagtt caggaccagc ctgcgcaaca tagcaagatc cccatctnta caaaaaaaat 60
aaacaattag ccagggcata gtggcatatg cccattgtcc catctactct ggaggctgag 120
gcgggaggtt cgangttcac agaaccccca taacccatcc agctagccag gtagaaggcc 180
tccaggtccg acgttgcatt ccccagggtc tgatgctgtc tgcaatcttc atccctaggc 240
agwagagcta aaaatg                                                 256


<210> 77
<211> 694
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (668)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (673)
```

<223> n equals a,t,g, or c

<400> 77
agcagcaagg ccaagcatgc aagaktcacc atccaccctg gccatgatgc agggcctcct 60
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ggatcgaagt aaagctctcg gtcaagttca acagcaggga gttcagcttg aagaggatgc 180
cgtcccgaaa acagacaggg gtcttcggag tcaagattgc tgtggtcacc aagagagaga 240
ggtccaaggt gccctacatc gtgcgccagt gcgtggagga gatcgagcgc cgaggcatgg 300
aggaggtggg catctaccgc gtgtccggtg tggccacgga catccaggca ctgaaggcag 360
ycttcgacgt caataacaag gacgtgtcgg tgatgatgag cgagatggac gtgaacgcca 420
tcgcaggcac gctgaagctg tacttccgtg agctgcccga gcccctcttc actgacgagt 480
tctaccccaa cttcgcagag ggcatcgctc tttcagaccc ggttgcaaag gagagctgca 540
tgctcaacct gctgctgtcc cttgccggag caaaccttgc ttcamctttc cttttccttt 600
ttggraccam ctgaaaaagg gttggcagag aagggaggca gttcattaag ttccttgcaa 660
aaaacttngc canggttttt ttggccccaa ggtt   694

<210> 78
<211> 2562
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2556)
<223> n equals a,t,g, or c

<400> 78
ggcacgagtg tagacgaagg ctccatatca ccccggactc tttcagccat taagagagct 60
cttgacgatg acgangatgt aaaagtgtgt gctggggatg atgtgcagac gggagggcca 120
ggagcagaag aaatgcgtat aaacagctcc accgagaaca gtgatgaagg acttaaagtg 180
agagatggaa aaggaatacc gtttactgca acacttgcgt catctagtgt gaactctgca 240
gaggagcacg tagccagcac taatgagggg agagagccca cagactcagt tccaaaagaa 300
caaatgtcac ttgttcacgt ggggactgaa gcctttccga taagtgatga gtctatgatt 360
aaggacagaa aagatcggct gcctctggag agtgcagtgg ttagacatag tgacgcacct 420
gggctcccga atggaaggga actgacaccg gcatcycaa cttgtacaaa ttctgtgtca 480
aagaatgaaa cacatgctga agtgcttgag cagcagaacg aactttgccc atatgagagt 540
aaattcgatt cttctcttct ttcaagtgat gatgaaacaa aatgtaaacc gaattctgct 600
tctgaagtca ttggccctgt cagtttgcaa gaaacaagta gcatagtaag tgtcccttca 660
gaggcagtag ataatgtgga aaatgtggtg tcatttaatg ctaaagagca tgagaatttt 720
ctggaaacca tccaagaaca gcagaccact gaatctgcag gccaggattt aatttccatt 780
ccaaaggccg tggaaccaat ggaaattgac tcggaagaaa gtgaatctga tggaagtttc 840
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gctgagtccg agagcctcct gagggacaac tctgagaggg acgacgtgga tggtgagcca 1020
caggaagctg agaaagatgc ggaagattcg ctccatgaat ggcaagatat taatttggag 1080
gagttggaaa ctctggagag caacctctta gcacagcaga attcactgaa agctcaaaaa 1140

```
cagcagcaag aacggatcgc tgctactgtc accggacaga tgttcctgga aagccaggaa 1200
ctcctgcgcc tgttcggcat tccctacatc caggctccca tggaagcaga ggcgcagtgc 1260
gcatcctgga cctgactgat cagacttccg gaaccatcac tgatgacagt gatatctggc 1320
tgtttggagc gcggcatgtc tatagaaact ttttttaataa aaacaagttt gtagaatatt 1380
atcaatatgt ggactttcac aatcaattgg gattggaccg gaataagtta ataaatttgg 1440
cttatttgct tggaagtgat tataccgarg aataccaact gtgggttgtg taaccgccat 1500
ggaaattctc aatgaattcc ctgggcatgg cctggaacct ctcctaaaat tctcagaatg 1560
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aaaaaaatta cggacattgc aactcacccc tggctttcct aacccagctg ttgccgaggc 1680
ctacctcaaa cccgtggtgg atgactcgaa gggatccttt ctgtggggga aacctgatct 1740
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atctctgttt cctgtattaa agcaactcga tgcccagcag acacagctcc gaattgattc 1860
cttctttaga ttagcacaac aggagaaaga agatgctaaa cgtattaaga gccagagact 1920
aaacagagct gtgacatgta tgctaaggaa agagaaagaa gcagcagcca gcgaaataga 1980
agcagtttct gttgccatgg agaaagaatt tgagctactt gataaggcaa aacgaaaaac 2040
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gagaacagct gcgaaagagc caaaaaccag tgcttcagat tcgcagaact cagtgaagga 2280
agctcccgtg aagaatggag gtgcgaccac cagcagctct agtgatagtg atgacgatgg 2340
agggaaagag aagatggtcc tcgtgaccgc cagatctgtg tttgggaaga aagaaggaa 2400
actaagacgt gcgaggggaa gaaaaaggaa aacctaatta aaaaatatgt atcctctata 2460
attagttatg acagccattt gtaatgaatt tgtcgcaaag acgtaataaa attaactggt 2520
rgcacggtaa aaaaaaaaaa aaaaaaaaaa aaaaanaaac aa              2562
```

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<210> 79
<211> 1610
<212> DNA
<213> Homo sapiens
```

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<400> 79
aattcggcac agggaaacat tctggtaatt tgtagagatc tgttggcatc tctgcttcac 60
aaactggaaa aaatcatttg taagtcttgc taattacttt tcttggagaa gaaaaaaaat 120
gctacagttg caaacaaatg tatagttttc aaaaagaagc aactttttg ctccccagtt 180
tattcttagt ttccagccca cgccttgcga tagsratagg catagtgatg gcctcaattc 240
tttctctctt gcatccgtac cttttgctgt gtgactttgc agctcctctc attaaagagg 300
cagagccccc tctcccaccc ataggagcag gttttgagag taacagaatg aagtgaaaat 360
gacactgtgc cagttctaag accagccctc aaaggttcat gtgtttctgc ttgctttcac 420
tgtatttgaa atgttgctgt gagaaagaca tctctgaaac agctgaatgg tcctaagaaa 480
aggatgagag atgcagggag cagagctccc aactgaggcc agcctagatc acctaagagc 540
caggcccca gtttactctc atgtgtaagc aataaatgct taccccagca ataccaccaa 600
ggtttgtggt tggtttatat acagcattaa tgtggcaata ggtgcaatac accctgttaa 660
acaaaccata cacatatgac tctaaccta atcataaatt gattcagtct gttcagttcc 720
acaacgctgt ttcctccaga atctcacaga tgacttacta aatccaacac aaatacacct 780
cagactttct gtctagctcc caaccagtta aaagcaattc taaatatttt ttttcttagt 840
cgtagtgcaa aagtatattc tctccctttc tctatagttt tctctcattt tgtcttcaga 900
cctagaagca tgagagccca gctgtcaaag tcatctagac ccccttcaga aggtcattaa 960
atttgtctat ttcacaggat tgcaagataa aatacagaat gcccagttra atttgaactt 1020
cggataaaca acaaattttt ttttagtata agcatatccc atacaatatt tgggatatrc 1080
ttatattttt atattgttta tctgacgttc aagctractg ggcatcctgt attttttctta 1140
gctaaatctg gcaactgtgc tatttcattg aaaacctgaa agtgtacaaa gaaggaagaa 1200
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gcagaatctg ccatatgagt aatagaagtg agcaggccca ggactcccta agtcaagaaa 1260
ccaagaggcg tcattacgga aaagagtaac tcaccctgtg tgctccttgg tagttctccc 1320
tcagcgatgc ccccatgtta tgaatgggga aaagttcact gaagggttca tagtgaagaa 1380
acttttttgga tgatttctgk tggtgggttt tggatacctt caagggatca gaaaataata 1440
tacttaggaa attttggtaa tgtcatcatt actctctaca ttattattat gacggttaca 1500
attgttaaat ctaggtggtg ggtatgtggg ttatattgta catgattttt aacttgtctg 1560
catgtttgaa attataataa agtcaataaa taaattattg agacactctt            1610
```

<210> 80
<211> 1048
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (997)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1021)
<223> n equals a,t,g, or c

<400> 80

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accagaccaa ttcgcccacc acaccaaatt ccggtggata ccctcmgtca tgttatcaat 60
cagacgggag gctacagtga tggccttgga ggaaattcac tgtacagtcc acataattta 120
aatgctaatg naggctggca ggacgcaaca actccatctt ctgtgacttc tcctacagaa 180
ggcccaggaa gtgtgcactc ggatacctct aactaatctc tggccacact tttccctgag 240
ctacatgcct tgataagtgc attcagagca ataggaggaa aaggaaagcg tttttgtagc 300
ccaccatcta cagctttact gtaaaacctt gtcttattcg agaacttggt aaatctgttt 360
tttaaggaat cataatcatt tgtatttata cttaaaaaca cacaatgtta aaaaaaataa 420
agcactttat ccaattaggc caagatttaa cattgttgac agtcctgtag ctattttatc 480
ataatttatt atcaatattt tacattaatg gtttcacagt tgccaattac ttggccttaa 540
gggtaaaaag tacaatatac actaaacctc aaccgttaaa gcagatgcaa aaattcacct 600
cacctaaatt gaacttcttg catatttcca ttactgactt ggattgtctt tctttcatat 660
cactaatgga gttggaataa agagctgttt gcctatccct gttaatgatg gttgtgttta 720
agaatcttcc tcgtcacgtt tgtgttcaga tctcttatgt tataattaga tcagagactg 780
gtagcatcgt ttctctctct gaaagcacca gtgcccagag tctgctcggt aataaaatta 840
tggatccaga ttgttctgag agacgaagat acttgctgct gatagaggtg aaaacgagat 900
tgatccgtct ggggttttac ggtgtgcact gggtgctgca cagacttgtc aaggtttgcy 960
acgtccyckg ggcactgcma aaggcccgcc cccgggntgt tgtaaaaatg tagccaaaga 1020
ntatttaaac atcccaccaa ccaaacac                                    1048
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<210> 81
<211> 1136
<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1131)
<223> n equals a,t,g, or c

<400> 81
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ggacagattg acttttttga ccctacattt gactatgaga tgatcttccg gggaacagga 120
gcactgatat ttgtcattga ctcacaggat gattacatgg aagccctggc caggctccac 180
ctcacggtga ccagggccta caaagtgaat actgacatca acttcgaggt gtttattcat 240
aaagtggatg gtctgtcaga tgaccacaaa attgaaaccc aaagagatat tcaccagagg 300
gcaaacgatg accttgcaga tgctggatta gaaaaaattc acctcagctt ttatctgaca 360
agcatatatg atcattcaat atttgaagct tttagcaaag ttgttcagaa actgattcca 420
caactcccaa ctctggagaa tttgctgaac atctttatct caaattctgg aattgaaaag 480
gcatttctat ttgatgtggt cagtaaaatt tatattgcaa ctgatagtac tccggtggat 540
atgcaaacct atgagctctg ctgtgatatg atagatgtgg ttattgacat ctcttgtatt 600
tatggtctca agaagatgg agcaggaacc ccctatgaca aggaatccac agccatcata 660
aagcttaata atacaaccgt gctttatta aaagaggtga caaagttcct ggctctcgtt 720
tgctttgtca gagaggaaag ctttgaaaga aaagggctaa ttgactataa ttttcattgc 780
ttccggaagg ccattcatga agtttttgag gtgagaatga aagtagtaaa atctcgaaag 840
gttcagaatc ggctgcagaa gaaaaagaga gccacccta atgggacccc tagagtgctg 900
ctgtaggtga ggtttcagga atgtcttttg aaatcagacc ttatccatga ggctgctgcg 960
ccatgttgca ctaaaggaag aggaagaagg agattgggac acataccatt gatttgttgt 1020
taaaaaaaaa aaattcctgc aaccctcttg atcttctctt ttataaataa agtaagcact 1080
ttgaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaangggggg nccccc    1136
```

<210> 82
<211> 297
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<400> 82
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acagccaaca gggggagcag tgcgagcntg aaggcagaca gtggcctggc ccagtctgat 60
gggagagacc caccgaccct gtggggctgg tccctacatc tggcgctctg acgtggggct 120
ctccctcgct gtgtgaagtt gcaccctgag tgcgggatca gcggaggagt tcaacgagag 180
attcctgagg attgcagtct ataaacttgg tgcaggcggc tgaccccgca gctyaacaag 240
atcaagaggc tgataatcaa gccctcagc ccgaaactca ggctgctcag ggaaaag    297
```

<210> 83

<211> 2150
<212> DNA
<213> Homo sapiens

<400> 83
aattcggcag agctcacgag agaggatttg gcgccctcct ctgtggattc tggccaggcc 60
gggttcggcg gttgctgtra gagcgggctt cccaacacca tgccgtccgc cttctctgtc 120
agctctttcc ccgtcagcat cccagccgtg ctcacgcaga cggactggac tgagccctgg 180
ctcatggggc tggccacctt ccacgcgctc tgcgtgcttc ctcacctgct tgtcctcccg 240
aagctacaga ctacagatcg ggcactttct gtgtctagtc atcttagtct actgtgctga 300
atacatcaat gaggcggctg cgatgaactg gagattattt tcgaaatacc agtatttcga 360
ctccaggggg atgttcattt ctatagtatt ttcagcccca ctgctggtga atgccatgat 420
cattgtggtt atgtgggtat ggaagacttt gaatgtgatg actgacctga gaatgcaca 480
agagagaaga aaggaaaaga aaggagaag gaaagaagac tgagggcag cagctgcttg 540
gagtttgcgt ccttcccgtc cacccagtgc agctcccagt gctgcagtgt gcgtggcgtg 600
ggcatccttc cagctgactc atggtttgaa aaaccgttgt tttatttaaa tatccacagt 660
ggtagggcac acactgaagt tgctttcag ccagcactga atgtatccat caggacatgc 720
gtcttcaggt gcctgatctt tgtagtcagg ctgtgggaac ggtctctgca gagcttcata 780
actgggaatt tgatttgaag aagtccatgt catatgtgta actagtacta attataaata 840
taaaatacac aatataaaat atgaaactca ataataaaca gtgccacctg tacatgggca 900
ccatgccctc ctcctcgtgc tgtgttttct agtgcatgcc acagttcgca gtagagggtg 960
ttttcacctt ccaagacatg gggcaaagtt tggagacacc tggttgtcac tggaggggt 1020
ggtgctcctg gcttctcctg tggagcccgg ggtgatgcat aaaatcctgt gtgcctggt 1080
cagccgcatc acagacaatg acttgacatg aaatgtcagc tgtgctgggg gcagagagac 1140
cttggaagga agctcttgga aaatacgttg tatctcagtt tgatgaacca attcacaaga 1200
ggctaggccc tctctagcaa agttatgggc tgctttactg aaaacagaat ggaagccctg 1260
aagtcaacac tccatggaga agcgtgtctt tcctaatgtc ctggtgttct gttgatttag 1320
gtgcttggga acacaatgct cccagttctg ttaggacagg catactgtta ctttgcaata 1380
tccactttat aaaatagctc ctgcccagtg gctcttgrtt cctgtcaaat gtggacctgt 1440
agtttaagaa tgacaggtgg ttagagaccc agatatttaa aaataggtgt tcaataaggg 1500
aatactgatt gtgcattgta tctggatagc atgcctaatt gtgcatttct gaaagttacc 1560
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aggtgcagag ctcaccagcc aagttcatgc ccctctcggg cctttgtggc tgagaagtgg 1680
gacagaaaga tgattaaggt aatgtgtcct ccctgtagca ttgtccaggg ccgttgtgta 1740
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gtataacatt ttcaccatct gatatggttt ggctttgtgt ccccacccaa attgcatctc 1860
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tggtttcccc tatgttgtta tcataataga gaggagttc tcacaagatc tgctggtttt 1980
aaagacagca gtttcccctg ctgtcactgt ctctctcctg ctgccttgtg aagaaggtgc 2040
ttgtttctcc ctctgccatg attgtaagtt tcccgagctc cccggccatg tggaactgag 2100
tcaattaaac ttcttgttta taaagtaaaa aaaaaaaaa aaaaactcga   2150

.<210> 84
<211> 601
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c

<400> 84
ttgtgtgcca ggggtggtcc ccagaaggag ctgatctgaa caggccggag agtaggaccg 60
gccgtnacac ccccacacct ccagcctcgg ccccactcct tgggctctta aggtcctgcc 120
tcaagaacca cttcctgagt cttagtgtat gtgtgtacaa aagaatgaaa gaagtctcta 180
gagctaaagg aaggagatyc gggctgggct gagaagcatc ttccaggatc acggscttcc 240
cgcgggacac accaagccca ttccggatct tgctcttcct gaccatggyt ggcaggytgt 300
ggaggaggas cggagagcag aagaaaggag tattcatcag gttccttatt gtgctgccac 360
tagatgccag gcatgtgctt aggcttgggg ggctgcaagg agaggaagac agcggccctg 420
ccctytgyta gcaggcagaa ccgagttytg gccacamtgt gaaggaaagg cagaagcctg 480
cgktggcary tggtttaagc tcagngggca gggaaaggga agaggagaat ggttttcacg 540
gagcagaagg ttgtgctcaa ggtggacctt ggagaataaa ggggagagct ccagggaaca 600
g                                                                 601


<210> 85
<211> 534
<212> DNA
<213> Homo sapiens

<400> 85
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ccctcctcct ggccagggca gcaagcctta gccttggctt cttgtttctg cttttttttct 120
ggctagaccg aagtgtacta gccaaggagt tgaagtttgt gactttggtg tttcggcatg 180
gagaccgaag tcccattgac acctttccca ctgaccccat aaaggaatcc tcatggccac 240
aaggatttgg ccaactcacc cagctgggca tggagcagca ttatgaactt ggagagtata 300
taagaaagag atatagaaaa ttcttgaatg agtcctataa acatgaacag gtttatattc 360
gaagcacaga cgttgaccgg actttgatga gtgctatgac aaacctggca gccctgtttc 420
ccccagaagg tgtcagcatc tggaatccta tcctactctg gcagcccatc ccggtgcaca 480
cagttcctct ttctgaagat cagttgctat acctgacctt tcaggaactg ccct        534


<210> 86
<211> 1037
<212> DNA
<213> Homo sapiens

<400> 86
tgctgactca tctatagaag gaaactacac tctgagagtt gattgtacac cgctgatgta 60
cagcttggta cacaacctaa caaaagagct gaaaagccct gatgaaggct ttgaaggcaa 120
atctctttat gaaagttgga ctaaaaaaag tccttcccca gagttcagtg gcatgcccag 180
gataagcaaa ttgggatctg gaaatgattt tgaggtgttc ttccaacgac ttggaattgc 240
ttcaggcaga gcacggtata ctwaaaattg gggaaacaaa caaattcagc ggctatccac 300
tgtatcacag tgtctatgaa acatatgagt tggtggaaaa gttttatgat ccaatgttta 360
aatatcacct cactgtggcc caggttcgag gagggatggt gtttgagcta gccaattcca 420
tagtgctccc ttttgattgt cgagattatg ctgtagtttt aagaaagtat gctgacaaaa 480
tctacagtat ttctatgaaa catccacagg aaatgaagac atacagtgta tcatttgatt 540
cactttttttc tgcagtaaag aattttacag aaattgcttc caagttcagt gagagactcc 600
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aggactttga caaaagcaac ccaatagtat taagaatgat gaatgatcaa ctcatgtttc 660
tggaaagagc atttattgat ccattagggt taccagacag gcctttttat aggcatgtca 720
tctatgctcc aagcagccac aacaagtatg caggggagtc attcccagga atttatgatg 780
ctctgtttga tattgaaagc aaagtggacc cttccaaggc ctggggagaa gtgaagagac 840
agatttatgt tgcagccttc acagtgcagg cagctgcaga gactttgagt gaagtagcct 900
aagaggattc tttagagaat ccgtattgaa tttgtgtggt atgtcactca gaaagaatcg 960
taatgggtat attgataaat tttaaaattg gtatatttga aataaagttg aatattatat 1020
atagttaaaa aaaaaaa                                                1037
```

<210> 87
<211> 597
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (582)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<400> 87
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atgttctcct gggcagcgtt gtgatctttg ccaccttcgt gactttatgc aatgcatcat 120
gctatttcat acctaatgag ggagttccag gagattcaac caggaaatgc atggatctca 180
aaggaaacaa acacccaata aactcggagt ggcagactga caactgtgag acatgcactt 240
gctacgaaac agaaatttca tgttgcaccc ttgtttctac acctgtgggt tatgacaaag 300
acaactgcca aagaatcttc aagaaggagg actgcaagta tatcgtggtg gagaagaagg 360
acccaaaaaa gacctgttct gtcagtgaat ggataatcta atgtgcttct agtaggcaca 420
gggctcccag gccaggcctc attctcctct ggcctctaat agtcaatgat tgtgtagcca 480
tgcctatcag taaaaagatt tttgagcaaa maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggnggcc gctctag    597
```

<210> 88
<211> 474
<212> DNA
<213> Homo sapiens

<400> 88
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aatccttaac ctcctgcatt ttagaaatac tccagagctt gtcttattct taccaaaatt 60
cctgtaggcc tttgactcct gactcacect gtctgcagtg tccccagcc tgcaggggtg 120
ggtgwgtcac agcaaccctc agccaccagc tgttttccat ctgccggcct tcctggggga 180
gagtcccttc cagctgtagc ccctgtctat gggaaaagtc tcatgtcctt ttcatctctc 240
```

```
cccactgcac actgtctctc accctagact ataattcaag tgaatttgac ctccatttat 300
tggacaagcc aggsactgtg ctaggrataa tgwaaaccat tagacaaatc tgaaagggag 360
ggatcactag actaaggggt agaaatgtgg agatgggagt aacttctgc atgtctttgc 420
aggaggtggc atgtgagaaa gctttttgga agaggtggca cctggagctg tgga      474
```

<210> 89
<211> 1537
<212> DNA
<213> Homo sapiens

<400> 89
```
agactttgaa atcagaggaa ttccagaaga ggctgcaccc ttataaggat tttatagcta 60
ccttgggaaa actttcagga ttacatggcc aggacctttt tggaatttgg agtaaagtct 120
acgacccttt atattgtgag agtgttcaca atttcacttt accctcctgg gccactgagg 180
acaccatgac taagttgaga gaattgtcag aattgtccct cctgtccctc tatggaattc 240
acaagcagaa agagaaatct aggctccaag ggggtgtcct ggtcaatgaa atcctcaatc 300
acatgaagag agcaactcag ataccaagct acaaaaaact tatcatgtat tctgcgcatg 360
acactactgt gagtggccta cagatggcgc tagatgttta caacggactc cttcctccct 420
atgcttcttg ccacttgacg gaattgtact ttgagaaggg ggagtacttt gtggagatgt 480
actaycggaa tgagacgcag cacgagccgt atcccctcat gctacctggc tgcagcccca 540
gctgtcctct ggagaggttt gctgagctgg ttggccctgt gatccctcaa gactggtcca 600
cggagtgtat gaccacaaac agccatcaag gtactgagga cagtacagat tagtgtgcac 660
agagatctct gtagaargag tagctgccct ttctcagggc agatgatgct ttgagaacat 720
actttggcca ttacccccag ctttgaggaa aatgggcttt ggatgattat tttatgtttt 780
agggaccccc aacctcaggc aattcctacc tcttcacctg accctgcccc cacttgccat 840
aaaacttagc taagttttgt tttgttttc agcgttaatg taaaggggca gcagtgccaa 900
aatataatca gagataaagc ttaggtcaaa gttcatagag ttcccatgaa ctatatgact 960
ggccacacag gatcttttgt atttaaggat tctgagattt tgcttgagca ggattagata 1020
aggctgttct ttaaatgtct gaaatggaac agatttcaaa aaaaaacccc acaatctagg 1080
gtgggaacaa ggaaggaaag atgtgaatag gctgatgggc aaaaaaccaa tttacccatc 1140
agttccagcc ttctctcaag gagaggcaaa gaaaggagat acagtggaga catctggaaa 1200
gttttctcca ctggaaaact gctactatct gtttttatat ttctgttaaa atatatgagg 1260
ctacagaact aaaaattaaa acctctttgt gtcccttggt cctggaacat ttatgttcct 1320
tttaaagaaa caaaaatcaa actttacaga aagatttgat gtatgtaata catatagcag 1380
ctcttgaagt atatatatca tagcaaataa gtcatctgat gagaacaagc tatttgggca 1440
caacacatca ggaaagagag cmccacgtga wggagtttyt ctagaagcty cagtgataag 1500
agatgttgac tctaaagttg atttaaggcc aggcatg                          1537
```

<210> 90
<211> 304
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)

<223> n equals a,t,g, or c

<400> 90
tgacaccatg cctggttaat tttttttaatt ttnattttca gtagagacaa ggttgcgcta 60
tgttgcccgg gctggtatgg aactcctgtg cttaagcggt cctcatgcct cggcttccca 120
aagtgctgag gttgcagcta tgagccaccg cacccagcct acattccttc ttatcaccga 180
gaaacaggtt gatcttcaca ggtgtaatga gtatgaaggg agtgccataa agatatttt 240
tattttttat ttatttattt tttaatttaa tttttttttt tttgggatgg gngtcttgct 300
ctgg   304

<210> 91
<211> 369
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<400> 91
ggtagagatg gggtctcgtc atgttgacca ggctggtctc aatctnctgg tctcaggcca 60
tccttccacc tcattctccc caagaactgg gattacaggc atgagcaact gcacctggtc 120
catatgcttc ttatagttga agaagtgaag ggtcaatgac ttactaaaa tactattaaa 180
gtaataaagc taggacttag ccccaattat tcatccttaa agtccaatac tttcaatata 240
ttaagttgct ctttattata tgaattctaa atatctttt tacctttgt tatctaatct 300
ggaaatccta tataaatgta taattttata catgctgact gatatccyct ctagtcttgc 360
tatactagg   369

<210> 92
<211> 315
<212> DNA
<213> Homo sapiens

<400> 92
gctttttacc ctctccaaac cttctaaccc tagcttcatg aatttatgtt actcgcctag 60
agggctctct ataaatatat acatttgtaa cttctgttta atataaataa atcattcttc 120
atagcaagga ttctggcatc agttggagat tctttggatg gatgtgctcc catggagttt 180
ctattttaat gtactaacaa cttatgactc gtctatctgt agtatcaatt atatccacta 240
tcacagtaac agtcaccact taatatgyat agratatctc attttaccaa gcaattatgg 300
tatctctgat ttata   315

<210> 93
<211> 701
<212> DNA
<213> Homo sapiens

<400> 93
aacattacaa gggctttat aaaaaaccct ttgttcatat ttcttccctt taaaatatgt 60
aatgtcaaaa atgactcacc ttttaaaaat tatgcatgaa aacaggtggt aaacattcag 120
taatacgcta tttctccaac atcaagacaa ctaaaacaaa tgataaaaat gtttatttt 180

```
acactccagc atatcgggtg agttttaggg atgtgtatga atatttaaat cttttaattt 240
cagttttaat gaaagctgaa cttaatag gg aaagctagct cttggtaact agcaatgatc 300
aggcattgtt tgcctctgtc aggttttctt atctgtttta ggtacatttt ttcagattct 360
gattgtttga gttaatggtt gaattttta a agtttttagt tacttaaaat akgattttaa 420
attrcatatt aatttagaaa attcctgtgt ttacttatat tttaaattgt gaaatggatc 480
caatcattag aacagagaga atagttcttt gaaactgaaa tactttagtt ttactgacct 540
tgtgtaaaga taatatgaag aaccagcttc caaagaaac cagcatatgg cactataaac 600
tatttcattt gagcaccatt ctttaccatg gatatattaa ttatgtatta tagtggagtg 660
atcatacagk tcccccaaat gtgatggttc aagggaattt a                    701
```

```
<210> 94
<211> 459
<212> DNA
<213> Homo sapiens
```

```
<400> 94
cgggcaactc tctggcatcc ttaatattct tctatagaaa ttgtgatgaa agaacagata 60
agcctaagta aatctagcgt gtggagctcc tttaaaatgt gaagaccttg ccawctggtt 120
aaaaataaaa cttggttttg tcctaaatat ccttgctggg cctattatac ataaaaaaag 180
gggccacagc ccatttgcaa ggcttctgaa tgaactccat tcattctgta cttggaaatg 240
tctcttcagc cacaaaaaga acaatagtta taacctaatt tctttggtgc catatcagca 300
gaagaagagc caagagacca ttatgaaaac tctagtaagt tctcttggtg attatataat 360
gctgtawtca ttgatcatat tkctgtattt aaataagtac atttttaaa acatcataaa 420
gtggatcagt aatgctgtaa tatcacattt catgtatta                       459
```

```
<210> 95
<211> 2589
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1056)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (2568)
<223> n equals a,t,g, or c
```

```
<400> 95
ggcacgaggg ctgccccttt gggttccagc cggggtcacg tccagcctcc actgggaaac 60
cagtgactga ggcctggacc cagaggtgga ccaggcatct cctggccacc tgtgacctgg 120
gaagaagcga gtcagtggcc cgttcaacct gctctgcagc tgctataaat agcctccctg 180
tttccaagag gaggtaagga agtgtttatc ttctaaaaac cagacgtttc ctgatgctct 240
gagcgttact cagtgctaca gaggagatgc acacgtcccc actatgttct gtcttgagaa 300
ggggacaaca gaaagaggaa aaggagccac tgtactttat tttgcaccta cagcgtgcct 360
tggcactggg ctagagaggc accttcctgc gtgaatcctg tgcggcaggt cttattgcca 420
taataagtca catcaaagac actgctggtc ataaaacact gttttacata ccatagggaa 480
aaacgctgcc aatcttaact aagatgctac aactgtacag ttccttccaa tcagagatgt 540
tcacgtgtga aaaaaaaact gtgctactta caatctatga aagctggtrt tatcccactt 600
```

```
ggcaggtaag ggaactgagg tcctgtgagt gaagtgacct catgatcaca caacaggaga 660
tggcagggct gggattcaaa cccgggagtg tctgctgcca catcccacac tcccactgcc 720
tggctccaag tcccaggaag ctcgagactg tgagttttct cccttgaaac tcacctggag 780
agagtccggg cacctgtgcc tatgtggagg gttccagccc cagccaggcc cctccgctgc 840
ccacaccctg ggaggagaag cggcctccct tccaggctca tctgctcact gcccgcattc 900
tcctggcaga gctgaggtct gagagatctg gactccaacc caagggccct ctcttgttat 960
tcaggggtgt ccacagttag gragggacct ggggccttgt cccaccacct tcctaggccc 1020
cgtgatcacc accccctcaa gcggggcccc agcccnctga gcaccccctc acgtgaccca 1080
gccctcggct gttccaggct cactgcccat ggtgtgctct tctgggccac agcagccagg 1140
gctccagggc gaggacrggg gacacctgaa aacaccccgt tgttcatggt cttgtgccca 1200
ttcattcgga gactcctgaa aaactgggct gtttgcaaag caaatccagc tccttgtcct 1260
agcaggttct cagaamgggg agtcccctgg gaatggagct gctcccctca cggcagcacc 1320
acgtttccag tccctcgatg ccactaatca gcatggactg tgttcaggac acagggtgaa 1380
cttttctctg accccggtg ctggtcctgt gccagcacgt agtagttamt cagtagaggt 1440
ttgctgagta aaccagaaat cagattatga gtgttcaggg gtttgataaa acagcaccac 1500
ataacgcaca caaagatact ccagaaacat ttgctgagta cctagtacgt gtgaggtgct 1560
gtgaggatag agcagagagg actgtgcccc agctgtgatg ctggcagagg tgacactaag 1620
agggaaatga gatatttggg gcagaatcca ctgggctctc ttggccatcc gctgccttgg 1680
gtctgttgag gtgggtgccc aaaggctgcc ttcttgacca gaacctgctg tgcgcttcac 1740
agaacctcct cttcattgga aatgctgggc acattgcagt cagtgagctg ctgccaaaac 1800
ggcgttaagt agaaccccca gaggccccgc cggttggtga tcaccctcag gtcctgccag 1860
ggagacacag tgaggaggtt ggctaattgc tgctttcagg ccctggaaat cagtcgccaa 1920
gccccaggag aaccccggtg agtccgtcca gttgaggcag aggcaataac ctcccattgc 1980
tcggccctgc gcctgcccca gtcctggcag ggggcaccgg ctcaggaaca tgcggcctcc 2040
tggmatttct cggtatttaa ctgtctcgct gtcttatccg agtccctaat gaaacgactt 2100
gtgtgacaat ctgtctgtgc cttacgaaag tgtctgtgca cttttttatcc tttttaaaag 2160
caacttttaa aagtggatgg ggagggggc tagcatacgt ggtagggttc tagaaatctg 2220
tggtcatcgc tgaaatcctt tttgcatcat gttttttgat gttggagtga tgaagtgtac 2280
atcccccacc ccacacacca ctacctgtgt acagaccttt taaaacatgt cttctttttc 2340
tgattcaata ctgtgacctc tccgatacag tctaatcctt ggggatctgt aatcaaggtt 2400
ttaaaacctg ggaagtgggt tgggaagggt ttgcactggt cttgagtgtt gtgcttttct 2460
gtgttgtgtg ttttgatttt tgtctttta tctgttttat attgacataa ttttcctgtt 2520
taaaaaaata caactttggc ttgttaaaaa aaaaaaaaa aaaaattnct gcggtccgca 2580
agggaattc                                                        2589
```

<210> 96
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>

```
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<400> 96
gagcacatct ggctctccat atgggaccgg ccgcctcgta gctgtttcac tcgcatccag 60
agggccacct gctgcgttct cctcatctgy ctcttcctgg gcgccaacgc cgtgtggtac 120
ggggctgttg gwgactctgc ctacagcacg gggcrtgtgt ccaggctgar cccgctgagc 180
gtcgacacag tcgctgttgg cctggtgtcc agcgtggttg tctatcccgt ctacctggcc 240
atsctctttc tcttcyggat gtcccggagc aaggttatca atactctggc tgaccatcgt 300
catcgtggga ctgactttgg tggaagtcct tggttactta tcattaactg tgtttctgag 360
aagttataaa tntggcatct cctnctgcac aacttacctt tgggttataa taatctggtg 420
accatcgtca cgttggactg antttggggg aagcctt                        457
```

```
<210> 97
<211> 516
<212> DNA
<213> Homo sapiens
```

```
<400> 97
agctcccacc agcctccttt ttattttttt gtacagatgg ggtcttgcta tgttgcccaa 60
gctggtctta aactcctggc ctcaagcaat ccttctgcct tggccccccca aagtgctggg 120
attgtgggca tgagctgctg tgcccagcct ccatgtttta atatcaactc tcactcctga 180
attcagttgc tttgcccaag ataggagttc tctgatgcag aaattattgg gctcttttag 240
ggtaagaagt ttgtgtcttt gtctggccac atcttgacta ggtattgtct actctgaaga 300
cctttaatgg cttccctctt tcatctcctg agtatgtaac ttgcaatggg cagctatcca 360
gtgacttgtt ctgagtaagt gtgttcatta atgtttattt agctctgaag caagagtgat 420
atactccagg acttagaata gtgcctaaag tgctgcagcc aaagacagag cggaactatg 480
amaagctctc ctgccatctc caagcccact tttcag                         516
```

```
<210> 98
<211> 314
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c
```

```
<400> 98
```

```
ggagaccgcg cgcgggacgg ggaggaatgg cctgtccgcg ttaaaccatc acaagccatg 60
gttgcggaag ggccacgcgt cccccagtag gagaatgact ccgattcgtg accctcagcg 120
ccggtgcatg tcgatcttgg cccccagggc tgtgatgcag ccagccaggt ctcagggaga 180
gggaacccag aagcctggca tgctggccaa aggagtcaag gaaacttttg agctatttac 240
agcttgtagc aattatgtaa agnatactcc nctgaacaaa atttggagca tgtttgttnc 300
tctctacctg attt                                                   314
```

```
<210> 99
<211> 679
<212> DNA
<213> Homo sapiens
```

```
<400> 99
agttgttccg tgtaggctgt tgttgactct cgtatgaaag cccacgcgat ccaagtgccc 60
tgcaggtttt ggtccaggga aaagttggtc tctgcagatg actgtaaatg actacctgga 120
ggtcgattaa agtgcggtac tgcgggattc arccgatttc cttcttcctc tgactgcccg 180
gaaatatcag ccaaaggcca gcgttctaag gacatatgga attggctatg gataattcat 240
atgctttcaa tcaacgaagc acatgtaatg gaattccatc tgagaagaaa acaacttcc 300
ttgtatcaga agatcatgga caaaaaatct taagtgtact acagaatttt agagaacaaa 360
atgtctttta tgatttcaaa ataattatga aagatgaaat aatcccgtgt catcgttgtg 420
tgttagcagc atgcagtgac tttttcaggg ctatgtttga agtaaacatg aaagaaagag 480
atgatggaag tgttaccatt actaatttgt cctccaaggc agtaaaagca tttctcgatt 540
atgcctatac tggaaaaaca aaaataacag atgataatgt ggaaatgttc ttccagttgt 600
catcatttct tcaagtttcc ttcctatcca aagcttgcag tgactttta ataaaaagta 660
ttaatcttga aaaaaaaa                                              679
```

```
<210> 100
<211> 599
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (584)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (599)
<223> n equals a,t,g, or c
```

```
<400> 100
aattcggcac gagtctcacc cctcggagac gctcgcccga cagcatagta cttgccgccc 60
agccacgccc gcgcgccacc accatgctag gtaacaagcg actggggctg tccggactga 120
ccctcgccct gtccctgctc gtgtgcctgg gtgcgctggc cgaggcgtac ccctccragc 180
cggacaaccc gggcgaggac gcaccagsgg agggacatgg ccagatacta ctcrgcgctg 240
```

```
cgacactaca tcaacctcat caccaggcag agatatggaa aacgatcyag cccagagaca 300
ctgatttcag acctcttgat gagagaaagc acagaaaatg ttcccagaac tcggcttgaa 360
gaccctgcaa tgtggtgatg ggaaatgaga cttgctctct ggcctttttcc tattttttcagc 420
ccatatttca tcgtgtaaaa cgagaatcca cccatcctac caatgcatgc agccactgtg 480
ctgaattctg caatgttttc ctttgtcatc attgtatata tgtgtgttta aataaagtat 540
catgcattca aaaaaaaaaa aaaaawaaaa aaaaaaaaaa acnnggggggg gggccccgn 599
```

<210> 101
<211> 1189
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (232)
<223> n equals a,t,g, or c

<400> 101
```
gggggcggga aggcgtgacc gccatgcaca agctctttga ctgggccaat accagccggc 60
gcgggaggag ataagcaagg acctcagagc cacactgaac gccttcctgt accacatggg 120
ccaacacagc aacaaattca tgctggtcct ggccagcaat ctgcctgagc agttcgactg 180
tgccatcaac agccgcattg acgtgatggt ccacttcgac ctgccgcagc angaggagcg 240
ggagcgcctg gtgagactgc attttgacaa ctgtgttctt aagccggcca cagaaggaaa 300
acggcgcctg aagctggccc agtttgacta cgggaggaag tgctcggagg tcgctcggct 360
gacggagggc atgtcgggcc gggagatcgc tcagctggcc gtgtcctggc aggccacggc 420
atatgcctcc aaggacgggg tcctcactga ggccatgatg gacgcctgtg tgcaagatgc 480
tgtccagcag taccgacaga agatgcgctg gctgaaggcg gaggggcctg ggcgcggggt 540
cgagcacccc ctatccggag tccaaggcga gaccctcacc tcatggagcc tggccacgga 600
cccctcctac ccctgccttg ccggcccctg cacatttagg atatgctcct ggatggggac 660
tgggctgtgc ccagggcctc tgtcccccag gatgtcttgt ggtggcggtc ggccgttctg 720
cccccccaggg cacccctgt tgtaggcact ggctagggag gggcaggcct ccttcctgcc 780
cctcgagaca ctcttgggag atgcattttc cgtctggctc acaggggag ggtgaggctt 840
tgtaccccag cccctgccca ggccactgtg agggtgggtg ctggctgagc ccctggggca 900
gaaggagtgg ggcaggcggg gtctttgttc tcggctccca cagcagagcc aggtgagggg 960
gggcctgcca ggactagaca gaagtggggc ggcctgaacc ctgcttccag ccatggccag 1020
gggccacgga acccggcagg ggtgtctgag gccgccctgt cagctggccg gtccaagcct 1080
gtggctggag ctggtgtgtg tttatctaat aaagtcccac aggtgcctca aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa           1189
```

<210> 102
<211> 251
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<400> 102
```
gccaatttga tgaagtgcaa agttcaggcc ggtatgattt tnagtgtctg caaagataaa 60
```

```
agcttcgatg atgaagaatc agtggatgga aataggccat catcagctgc atcagccttc 120
aaggttcctg cactaaaaca tccggaaatc ctgccaacag tgcaaggaag ctggttcagc 180
aggtggccct aaggttkgag gttstaaatc catttcaatc tgttatgctg gtccatggcc 240
ttgatattgg c                                                       251

<210> 103
<211> 458
<212> DNA
<213> Homo sapiens

<400> 103
gggaggcttt ctgaattatg ggggcaacat ggggagactg ggctttctgt ggaccatgac 60
agctccgcag ccgtgctggg ctcctcagct ccactgtcag ggctaggaat tggccacaga 120
acccccagag ccaaccctgg ggcccactag daccccaaac acctgtgttt tcattctgcg 180
tggcctcctg gttccctgga gttctttttt atgctgcctc tggtgtgagg tcctcagcat 240
ttaatttgtt ctaagtttaa aagctgcaag agcaaaacag aacccccaaa gcctggggcc 300
cacagctgct gcggctgatc agagatacga ccccagagga ccacgtccac carggggcgg 360
atggacagcc acctattttg tamtccttgt ttcaaaagca acaatagcaa ataacattcc 420
aaaagttcta tgatragact tcaagacact aggattta                          458

<210> 104
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (402)
<223> n equals a,t,g, or c

<400> 104
tgtgtgtccg cgcaggcgag caccgcgccg gccctgagcc tcccgctcgc tccccacggc 60
cgcggtgcat gttcgcctcc tgccactgtg tgccgagagg caggaggacc atgaaaatga 120
tccactttcg gagctccagc gtcaratcgc tcagccggag atgagatgca ccatccggct 180
gctggacgac tcggagatct cctgccacat ccagagggaa accaaagggc agtttctcat 240
tgaccacatc tgcaactact acagcctgct ggagaaggac tactttggca ttcgctatgt 300
ggacccagag aagcaaaggc actgggcttg aacctaacaa gtccatcttc aagcaaatgn 360
aaactcatcc accatacacc atgtgcttta gagtgaattt anccacatga acccttgaag 420
attaaagaag actcacaag                                               439

<210> 105
<211> 233
<212> DNA
<213> Homo sapiens

<400> 105
```

```
tcccaaagtg tggggattat aggcatgagc cactatgccc agcctacttt tgtttttaag 60
aaattgaaac gatatagaaa agtacaaaga acaacctaat aaacactcat attcccacca 120
ctcagaatta tcaacttttt atcattttat catatttgct tcagatcttt tttttttta 180
aagaaaagta taacagattt agctaaagta cccttttgacc aataccccac ccc      233
```

<210> 106
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (704)
<223> n equals a,t,g, or c

<400> 106
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ggcagcggtg gccgaggcct cttggttctg cggcacgtga cggtcgggcc gcctccgcct 60
ctctctttac tgcggcgcgg ggcaaggtgt gcgggcggga aggggcacgg gcaccccgc 120
ggtccycggg aggctagaga tcatggaagg gaagtggttg ctgtgtatgt tactggtgct 180
tggaactgct attgttgagg ctcatgatgg acatgatgat gatgtgattg atattgagga 240
tgaccttgac gatgtcattg aagaggtaga agactcaaaa ccagatacca ctgctcctcc 300
ttcatctccc aaggttactt acaaagctcc agttccaaca ggggaagtat attttgctga 360
ttcttttgac agaggaactc tgtcagggtg gatttttatcc aaagccaaga aagacgatac 420
cgatgatgaa attgccaaat atgatggaaa gtgggaggta gaggaaatga aggagtcaaa 480
gcttccaggt gataaaggac ttgtgttgat gtctcgggcc aagcatcatg ccatctctgc 540
taaactgaac aagcccttcc tgtttgacac caagcctctc attgktcagt atgaggktaa 600
tttccaaaat ggaatagaat gtggtggtgc ctatgtgaaa ctgctttcta aaacaccaga 660
actyaamctg gatmakgtts agaggactat aaactgcctt catn           704
```

<210> 107
<211> 445
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (426)
<223> n equals a,t,g, or c

<400> 107
```
ggaataccccc ctcacttctg tggcttcttt cctgtagtag acgatcaagg gtggaatcta 60
cagtccatgg gccctgactt cttgccttcg tctcaaatag actctgcagc cagccatcta 120
tgcagcgccc cagtggcttt gaaatgcaac agaaaccatc accccggac catgggctcc 180
atgccagtgg gcaaagcaca ggtgcgttca ctgagttccc agcacatagc tgtggcaggc 240
acttggtgat attttgaaat aaaagaatgg aagaatgtgt ccaagctgtg cttccccttt 300
ctaccttact cagggacatg gtgccctcct ctctggttyc ctgccctgtg ccamccccg 360
sccccctgcaa gcacagytct tatgtgcaaa gccccctgtaa gtgctggagg gattactgat 420
ggcttngggg aagtggcaat gggat                        445
```

<210> 108
<211> 592

```
<212> DNA
<213> Homo sapiens

<400> 108
accaaaactg cacaaagata gaaacaggga cttctgtgct ccttgagctt cacgtgttaa 60
cctggctccc cagaccaaag accaacaccg cagggtgagt tcatcctctg ccaacagcaa 120
tctttccctt cctctgaggc cagccatccc catcccagga ggcagggaa gcaagcccgg 180
ggagggcagg agagctccca gctcagtgaa gcagctccac cggccccgaa gcacctccct 240
tgctcacagc tcrgasccca gcttctccct gctgcmaagr taactgcagc yttcagactg 300
acttccatgc ccctctagct agggsccatc acttcaagtt caggcgccaa aaaccaagaa 360
agtaaatcac acttcataga ctttatttac cttaaaaaat tcctgagttc attcatgtct 420
ccaaaccact agagaacctg aaaattcacc aggaaattgg gcaactgcaa gttatcctgg 480
agactccaga gtcaacactt cattaaatga gaacaatctg gttcatgcgt tgaagctgtt 540
acagtaatca gggcgacatg ggcaggggaa gcgattttc tgaagctgtg cc        592

<210> 109
<211> 381
<212> DNA
<213> Homo sapiens

<400> 109
tcaccttgta gagaagaaag tcaacagata atttctaaat tggaaaatca ggaaattaca 60
gtcattataa gagatatatg gggaggatat aaataccaga ataaaaagat aaaagagatg 120
aaaatagtag tctctgggga gctaaagtct aaaatacaaa ggtgtgaggc agaccttata 180
tactacttaa cttgtatact atttatagcc cagtattctg ttttctagac ctgtccaggt 240
gttaagggat ccaatctatg aaccagcaga gacccaatga ctaaagmcaa actttgctgc 300
acactgaaat cacctggggg aatctttaa aaagtactga cgcctgactc ccacccacaa 360
acagtctgat ttaattgggc a                                          381

<210> 110
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<400> 110
ctgtccctgc actccgtggc ggaaggcggc tagagcggct ccctctgagc tctccgagag 60
attggtcggg acctgaagcg ttgaggttaa gggcaaggca aggagcaacg aggagttttt 120
cgttacgtta gaaaaatttc gttgcgtgct gaaagcgctt ttacctgtgt tgtatgattt 180
aaccttatga aaatggacag tatttccagt tttacaagtg aggaaagaag attaagaaac 240
ttgcctccgc cangcgtggt ggttcactcc ctgtaatccc agcactttcg gcggccgaag 300
caagcggatc acttgaggtc angagttcga agaccagcct gggccaaaca t        351
```

<210> 111
<211> 1583
<212> DNA
<213> Homo sapiens

<400> 111
ggggggccgca ggagatgacg gccggcggcc aggccgaggc cgagggcgct ggcggggagc 60
ccggcgcggc gcggctgccc tcgcgggtgg cccggctgct gtcggcgctc ttctacggga 120
cctgctcctt cctcatcgtg cttgtcaaca aggcgctgct gaccacctac ggtttcccgt 180
caccaatttt ccttggaatt ggacagatgg cagccaccat aatgatacta tatgtgtcca 240
agctaaacaa aatcattcac ttccctgatt ttgataagaa aattcctgta aagctgtttc 300
ctcwgcctct cctctacgtt ggaaaccaca taagtggatt atcaagcaca agtaaattaa 360
gcctaccgat gttcaccgtg ctcaggaaat tcaccattcc acttacctta cttctggaaa 420
ccatcatact tgggaagcag tattcactca acatcatcct cagtgtcttt gccattattc 480
tcggggcttt catagcagct gggtctgacc ttgctttttaa cttagaaggc tatatttttg 540
tattcctgaa tgatatcttc acagcagcaa atggagttta taccaaacag aaaatggacc 600
caaaggagct agggaaatac ggagtacttt tctacaatgc ctgcttcatg attatcccaa 660
ctcttattat tagtgtctcc actggagacc tgcaacaggc tactgaattc aaccaatgga 720
agaatgttgt gtttatccta cagtttcttc tttcctgttt tttggggttt ctgctgatgt 780
actccacggt tctgtgcagc tattacaatt cagccctgac gacagcagtg gttggagcca 840
tcaagaatgt atccgttgcc tacattggga tattaatcgg tggagactac attttctctt 900
tgttaaactt tgtagggtta aatatttgca tggcaggggg cttgagatat tccttttttaa 960
cactgagcag ccagttaaaa cctaaacctg tgggtgaaga aaacatctgt ttggatttga 1020
agagctaaag agtctgcagc aggattggag actgacttgt gactgcgggc tggggggca 1080
ttcccagtag gaatgtgaag ccagaggttt cggattcgtg acatccaccc cctgggcaag 1140
tgagagcatc tgcaaaatgc aaagagaact acctcatatg caggatgagc caatggcagt 1200
ctcaagaaat gtactcgggc gacaccttac ctgtggaaag caaatctttt caaaataagc 1260
cactgggact cggtaggtgg agccccagct gctcttctag ggacctatgg ggccttcgtg 1320
gcatctctgt gctgtgtgct ggggaggagg ttgatgtaat ggtgactctt ttctgatcag 1380
caccttggcc gtgattccca aggtcccagc caaagcaaag ggccagttgt ttcagtttaa 1440
acagacatgt ctttagtcta ataaaattag ttaactgcca gtaaagttat ttgttagctt 1500
tgatgaaagc tatgttggta tctttcccta atcatcaaag taaataaaaa atcatttcta 1560
aaaaaaaaaa aaaaaaactc tga   1583

<210> 112
<211> 431
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>

```
<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 112
ccggcagcta gagcagctac tgactctgtt tcagccatct tcgataaagg caaaaaggta 60
agggaaagtt tccaagcttt aggaagaatt atttttttc aagacgctgt cttccgtact 120
ttcgttatta aacatacggc tcaagtgatc accggtatag acagtgacat cagacatctt 180
tcattagccc tactcaaaaa tggcggcaac gtaatatcct gggccggagt cggttgtaac 240
ccggaagtgc ctttgtaaag gaggggtggt tagacaatcc ggaartggat ggaatgaaga 300
gatgccactt ggcggcccat ggcagctgtt agtatcggcg actccgggtm aaggcccgkt 360
csagttgcat taccatgggg cagcaccngg ttttaggggc agggacantt ttgttgttca 420
anttgttgct g                                                        431

<210> 113
<211> 2842
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2040)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2603)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2656)
<223> n equals a,t,g, or c


<400> 113
ggtggactcg gagtccgcga gcgtcgtcgg caagcggccg cctttccacg gtactccgag 60
cactatgtcg tccccggcgt cgaccccgag ccgccgcggc agccggcgtg gaagggccac 120
ccccgcccag acgcctcgga gtgaggatgc caggtcatct ccctctcaga gacgtagagg 180
cgaggattcc acctccacgg gggagttgca gccgatgcca acctcgcctg gagtggacct 240
gcagagccct gctgcgcagr rcgtgctgtt ttccagccct ccccaaatgc attcttcagc 300
tatccctctt gactttgatg ttagttcacc actgacatac ggcactccca gctctcgggt 360
agagggaacc ccaagaagtg gtgttagggg cacacctgtg agacagaggc ctgacctggg 420
ctctgcacag aagggcctgc aagtggatct gcagtctgac ggggcagcag cagaagatat 480
agtggcaagt gagcagtctc taggccaaaa acttgtgatc tggggaacag atgtaaatgt 540
ggcagcatgc aaagaaaact ttcagagatt tcttcagcgt tttattgacc ctctggctaa 600
agaagaagaa aatgttggca tagatattac tgaacctcta tacatgcaac gacttgggga 660
gattaatgtt attggtgagc cattttaaa tgtgaactgt gaacacatca aatcatttga 720
caaaaatttg tacagacaac tcatctctta cccacaggaa gttattccaa cttttgacat 780
ggctgtcaat gaaatcttct ttgaccgtta ccctgactca atcttagaac atcagattca 840
agtaagacca ttcaacgcat tgaagactaa gaatatgaga aacctgaatc cagaagacat 900
tgaccagctc atcaccatca gcggcatggt gatcaggaca tcccagctga ttcccgagat 960
```

```
gcaggaggcc ttcttccagt gccaagtgtg tgcccacacg acccgggtgg agatggaccg 1020
cggccgcatt gcagagccca gtgtgtgcgg gcgctgccac accacccaca gcatggcact 1080
catccacaac cgctccctct tctctgacaa gcagatgatc aagcttcagg agtctccgga 1140
agacatgcct gcagggcaga caccacacac agttatcctg tttgctcaca atgatctcgt 1200
tgacaaggtc cagcctgggg acagagtgaa tgttacaggc atctatcgag ctgtgcctat 1260
tcgagtcaat ccaagagtga gtaatgtgaa gtctgtctac aaaacccaca ttgatgtcat 1320
tcattatcgg aaaacggatg caaaacgtct gcatggcctt gatgaagaag cagaacagaa 1380
actttttca gagaaacgtg tggaattgct taaggaactt tccaggaaac cagacattta 1440
tgagaggctt gcttcagcct tggctccaag catttatgaa catgaagata taaagaaggg 1500
aattttgctt cagctctttg gcgggacaag gaaggatttt agtcacactg gaaggggcaa 1560
atttcgggct gagatcaaca tcttgctgtg tggcgaccct ggtaccagca gtcccagct 1620
gctgcagtac gtgtacaacc tcgtccccag gggccagtac acgtctggga agggctccag 1680
tgcagttggc ctcactgcgt acgtaatgaa agaccctgag acaaggcagc tggtcctgca 1740
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gaatgaaagt acaagatcgg tattgcatga agtcatggaa cagcagactc tgtccattgc 1860
aaaggctggg atcatctgtc agctcaatgc gcgcacctct gtcctggcag cagcaaatcc 1920
cattgagtct cagtggaatc ctaaaaaaac aaccattgaa aacatccagc tgcctcatac 1980
tttattatca aggtttgatt tgatcttcct catgctggac cctcaggacg argcctatgn 2040
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aggagctcct ggacatggcg gtgctaaagg actacattgc ctacgcgcac agcaccatca 2160
tgccgcggct aagtgaggaa gccagccagg ctctcatcga ggcttatgta gacatgagga 2220
agattggcag tagccgggga atggtttctg cataccctcg acagctagag tcattaatcc 2280
gcttagcaga agcccatgct aaagtaagat tgtctaacaa agttgaagcc attgatgtgg 2340
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gcatcgtgga catatctatt cttactacgg ggatgagtgc cacctctcgt aaacggaaag 2460
aagaattagc tgaagcattg aaaaagctta ttttatctaa gggcaaaaca ccagctctaa 2520
aataccagca acttttgaa gatattcggg gacaatctga catagcaatt actaaagata 2580
tgtttgaaga agcactgcgt ccnctggcag wtgatgattt cctgacagtg actgggaaga 2640
ccstgcgctt gctctngaag ccttgtgagc aaggaaggct ccctgcatgt cctgcttgct 2700
gcacgccaca tgggtgtggt ctgcatctca gttggccgcc atcagtgtaa atagagctta 2760
aagtcatggt ttggctgcat aaaaattttc taacttgggt tcaatatttg tagtgaagta 2820
tctgttttca ttttttttcac gt                                           2842
```

```
<210> 114
<211> 268
<212> DNA
<213> Homo sapiens

<400> 114
attttgctgc tggtgggttg ggctacagca ggcctctgga gccacaccag ggcacgggag 60
tgggtgcagg gaccgtcacc gcgccttcac acgcaccata gtgcccggct aattactctg 120
cttttatgag ccaaggtgtt cccgaaagtg garccagcgc cacgcgtctc yaaggtctcc 180
atacccagcc ttcgtccctg cggtgcccaa aagccttgcg cgcattttgc atttgggaaa 240
aaaagtcctg aatgcgaacg tcacccca                                       268
```

```
<210> 115
<211> 800
<212> DNA
<213> Homo sapiens

<220>
```

```
<221> misc feature
<222> (673)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (794)
<223> n equals a,t,g, or c

<400> 115
gcgtcggggc ttcggaggcg tgcgggcttc ggaggcgtgc gggcttcgga ggcgwgcggg 60
cttcggaggc gtgcgggctt cgggtgccat ggggactcct cccggcctgc agaccgactg 120
cgaggcgctg ctcagccgct tccaggagac ggacagtgta cgcttcgagg acttcacgga 180
gctctggaga aacatgaagt tcgggactat cttctgtggc agaatgagaa atttagaaaa 240
gaacatgttt acaaaagaag ctttagcttt ggcttggcga tattttttac ctccatacac 300
cttccagatc agagttggtg ctttgtatct gctatatgga ttatataata cccaactgtg 360
tcaaccaaaa caaaagatca gagttgccct gaaggattgg gatgaagttt taaaatttca 420
gcaagattta gtaaatgcac agcattttga tgcagcttat attttagga agctacgact 480
agacagagca tttcacttta cagcaatgcc caaattgctg tcatatagga tgaagaaaaa 540
aattcaccga gctgaagtta cagaagaatt taaggaccca agtgatcgtg tgatgaaact 600
tatcacttct gatgkattar aggaaatgct gaatggtcat gatcattatc agaacatgaa 660
catgtaattc agntgataaa gtccaagcca gataaggcct taacttgata aaggatgatt 720
tttttgacaa tattaagaac atagtttttgg agcatcagca gtggcccaaa gaccgaagaa 780
tccatcctta aggncaaaac                                              800

<210> 116
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (592)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (615)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (645)
<223> n equals a,t,g, or c

<400> 116
```

```
aacaaaggca ttgccatcta caagaaggat ttcttcctgg tgcagaagct ggtgagctgg 60
gctctgtttc agggcaaatg agggccagga gctgcctgtg tgactttggg gctccctctg 120
ccagtgacca atccctctta aaaagcagtc aggtcaatgc tactgagtag cctcagagag 180
aatttcctaa acaatacaag aaagagaaag ataggtctct tttccctttt ggttctaagc 240
atcctttcct cacttcaggg tagggtggcc aagctctggg gtctcaatcc agaaggaggc 300
ctaagtgggc atcagactta aaataggcag gaggaagatg cggaggaggg tggcaaktag 360
aggtgagcca ttccccagag gaagatgcag ggggagggca ccctggggtg aaggccactg 420
agagccagca agtgcctgcg gactgacctg ggggcctctg cccacttcct ttgacccaga 480
gttgccttcc agtaactcag ctgttcaagc ccacattccc taagatttat cttgtcctct 540
ctcccatatt cttctnggaa aagcagatgc tttgctaatc ccaaggaatt gnatttttc 600
cagccctgtt ttcanaaaat ctggggcttt ggggaaaaaa aattnt             646
```

<210> 117
<211> 1534
<212> DNA
<213> Homo sapiens

<400> 117
```
gcgacctcgg ccataagcgc ctgcgcagtc gcggggccgc cggccgtgct gttcccgcca 60
attcctgtgg taatccttac cgtggcgagt tccgcgctca atggagacgt ttgaccccac 120
cgagctgccc gagctgctta aactttatta ccggaggctc tttccctact ctcagtacta 180
tcgctggctc aactacggtg gagtgataaa gaattacttt caacaccgtg aattttcatt 240
cacattgaaa gatgatattt acattcgcta ccaatccttc aacaaccaga gtgatctgga 300
aaaggagatg cagaaaatga atccatacaa gattgatata ggcgcagtat attctcacag 360
acccaatcaa cacaatacag tgaagctggg agctttccag gctcaggaaa aagaactggt 420
atttgacatt gacatgacag actatgacga tgtgaggaga tgttgtagtt ctgcagacat 480
atgtcctaag tgctggaccc tcatgacaat ggccatacgc atcattgaca gagcattgaa 540
ggaggacttt ggatttaagc atcgtctctg ggtatattct ggaaggagag gtgttcattg 600
ttgggtctgt gatgaatcag ttagaaactg tcttctgcar tacgttcygg gatagttgag 660
tatttgagcc ttgtaaaggg tggtcaagac gttaaaaaga aagttcacct aagtgaaaaa 720
attcaccctt ttatcagaaa atctataaac ataataaaaa aatactttga agaatatgcy 780
ttggttaatc aagatattct cgaaaataaa gaaagctggg ataagatttt agcccttgtc 840
ctgaaacaat tcatgatgaa cttcaacaaa gcttccaaaa gtctcacaat tcacttcagc 900
gttgggagca cttgaagaaa gtagccagca gatatcagaa taacatcaaa aatgacaaat 960
atggaccctg gctggagtgg gagattatgc tccagtactg ttttccacgg ctggatatca 1020
atgtcagcaa aggaatcaat catctactga agagcccttt tagtgttcat cctaaaacag 1080
gtcgcatmtc tgtgcctatt gatttgcaga aagtggacca gtttgatcca tttactgttc 1140
cgaccataag cttcatctgc cgtgaattgg atgccatttc cactaatgaa gaggaaaaag 1200
aggagaatga agctgaatct gatgtcaaac atagaaccag agattataag aagaccagtc 1260
tagcacctta tgtgaaagtt tttgaacatt ttcttgaaaa tctggataaa tcccgaaaag 1320
gagaacttct taagaagagt gatttacaaa aagatttctg aagacagagc tcctcaaacc 1380
attgtggata tcttctgcct tcaaccacag atcaaatact tcaagagcca tttaataaat 1440
atggcagaac tatatatgtg tcttaaacct caaagtaaat tttccttgag aaataaaaaa 1500
aaaaaaaaaa aaaaagtcg agactagttc tctc                            1534
```

<210> 118
<211> 339
<212> DNA
<213> Homo sapiens

<220>

```
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c


<400> 118
tagatgaaga taatgaaaaa gaaaaaaggg actctttagg caatgaagaa tctgttgata 60
aaacagcatg tgaatgtgta aggagtccaa gggagtcttt ggatgacctg tttcaaatat 120
gttctccatg cgccattgca agtggtcttc ggaanacctg gctgaattga caacattatg 180
tttggagttg aatgtattga attctaagat caaaagcacc agtggracat gtgggaccac 240
actttgccaa cagtaactct cctgaaattc tgggcttgcc atttccctga aagaagtact 300
tttttcntcc ggaacttgga aaagagcgaa ggnagagta                       339


<210> 119
<211> 665
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (616)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (656)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (665)
<223> n equals a,t,g, or c


<400> 119
aaagagtgtc cctagttgta acagaaactg tcgatgcagg tttatttgga gaaggaattg 60
tggagagttt gattcatgca tgggagcatt tactttaca gccaaagacc aaaggtgaaa 120
gtgctaattg tgaaaagtat gggaaagtta taccagcaag tgctgttata tttgggatgg 180
cagtagaatg tgcagagata agaagacatc atagagtggg tattaaggac attgctggta 240
tccattgcc aacaaatgtg aaatttcaga gtccggctta ttcttctgta gatactgaag 300
aaacaattga accttataca actgaaaaga tgagtcgagt tcctggmggr tatttggctt 360
tgacagagtg ctttgaaatt atgasagtag atttcaacaa ycttcaggaa ttaaaaagtc 420
ttgcaactaa raarcctggt aaaattggta ttcctgttat taaagaaggc atattagatg 480
```

```
ctgttgtggt ttggtttgta ctccagcttg atgatgaaca tagtttatcc acaagtccta 540
atgaggaaac atgttgggaa caagctgtct accctgtaca tgaccttgca gactaccgga 600
taaaacgtgg ggaccngtga tgatggaatg tcttgtccaa gattgttact taagantcca 660
gaatn                                                            665
```

```
<210> 120
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (544)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (577)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (614)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222>.(620)
<223> n equals a,t,g, or c

<400> 120
gagggctgcg ggaggcggga ggaaaaagtg gggccgggcc tgagttgggc tgacctgtga 60
aagtctggga aggtctgcga gagaagcgga gtgtttcag ctccggaagt ggcagttgta 120
aacttcacct cccggggggct cttccccttc tgtacccctt tgctgtttgt ccccctcctc 180
ccgggtcctg gagtccgtcg tgttccaaca gttttttgctc ttattcccgt gggctgctgg 240
gcctcctttc acccgtgaga cttggarcgg ccctggggtc ttgggtgtca agcacggatc 300
acgcgagacc cctgagacct caaatcatct aacgtgaagc cacagacatc ttggcaattt 360
taatcatcaa gaaagaaata tgtcattaag aaatagcagg gtattttgaa agaagttgga 420
aaacatcatg aatttgaata ctttaagtaa tactggtgat acccaaaggt tgaagattgc 480
ctcattggat gtaaacaaa tacttaaaaa tgaaacagag ttggatatta ctggataatc 540
tcangaagaa actccattgg gctaaaaaag aaaagtntga aataccacca accccatgga 600
aancttgcaa gctntgaagn ca                                          622
```

```
<210> 121
<211> 889
<212> DNA
```

<213> Homo sapiens

<220>
<221> misc feature
<222> (817)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (830)
<223> n equals a,t,g, or c

<400> 121
ggctgaagcc atccccttgg ctgatcagcc acatctgttg cagccaaatg ctagaaagga 60
ggatctttt ggccgtccaa gtcagggtct ttattcttca tctgccagta gtgggaaatg 120
tttaatggag gttacagtgg atagaaactg cctagaggtt cttccaacaa aaatgtctta 180
tgctgccaat ctgaaaaatg taatgaacat gcaaaaccgg caaaaaaaag aaggggaaga 240
acagcccgtg ctgccagaag aaactgagag ttcaaaacca gggccatctg ctcatgatct 300
tgctgcacaa ttaaaaagta gcttactagc agaaatagga cttactgaaa gtgaagggcc 360
acctctcaca tctttcaggc cacagtgtag ctttatggga atggttattt cccatgatat 420
gctgctagga cgttggcgcc tttctttaga actgttcggc agggtattca tggaagatgt 480
tggagcagaa cctggatcaa tcctaactga attgggtggt tttgaggtaa aagaatcaaa 540
attccgcaga gaaatggaaa aactgagaaa ccagcagtca agagatttgt cactagaggt 600
tgatcgggat cgagatcttc tcattcagca gactatgagg cagcttaaca atcactttgg 660
tcgaagatgt gctactacac caatggctgt acacagagta aaagtcacat ttaaggatga 720
gccaggarar ggcagtggtg tagcacgaag tttttataca gccattgcmc aagcattttt 780
atcaaatgaa aaattgccma atctagagtg tatcccnaaa aaaaaatttn ggcccccca 840
aaaacccaaa aaaaggggc caaccccccaa ccaccaaagg gttttttaa   889

<210> 122
<211> 132
<212> DNA
<213> Homo sapiens

<400> 122
cttgagcccc tgagttgtgg gggtaggytg aagagcatat cccacaagag gccccacagg 60
gagcagagac tgctttaatc cctgctgaca tcacggaaaa gcaacagagc cttttcaact 120
ttgtcactat gt   132

<210> 123
<211> 1900
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (1879)
<223> n equals a,t,g, or c

<400> 123
gcggacgcnt gggaaacagc cgattggaga cgggagccaa ccagggctgc attggaggtt 60
gaaatcacaa agattagaca cctttttaga taggtgttct tcagcaccac tgacaacacg 120
gttctgacag tatttcatga caatggatgg tgacagttct acaacagatg cttctcaact 180
aggaatctct gcagactata ttggaggaag tcattatgtt atacagcctc atgatgatac 240
tgaggacagc atgaatgatc atgaagacac aaatggttca aaagaaagtt tcagagaaca 300
agatatatat cttccaatag caaacgtggc taggataatg aaaaatgcca tacctcaaac 360
gggaaagatt gcaaagatg ccaagaatg tgttcaagaa tgtgtaagtg agttcatcag 420
ttttataaca tctgaagcaa gtgaaaggtg ccatcaagag aaacggaaaa caatcaatgg 480
agaagatatt ctctttgcta tgtctacttt aggctttgac agttatgtgg aacctctgaa 540
attatacctt cagaaattca gagaggctat gaaaggagaa aagggaattg gtggagcagt 600
cacagctaca gatggactaa gtgaagagct tacagaggag gcatttacta accagttacc 660
agctggctta ataaccacag acggtcaaca acaaaatgtt atggtttaca caacatcata 720
tcaacagatt tctggtgttc agcaaattca gttttcatga tctgaagaaa tgatggaatg 780
gggagtgtag agaaatgaga gtctgtatga ttctggaaca gagacatcag aaggaaagac 840
tggtgaaaag atgtatcttt gtatattaat agctgtaatg tagcttcctg atgcttgact 900
aattgaggtg ttaattctga cttgagaatc ttttttcatga atgatttttaa agaaaaattt 960
ggattttaaa ggtattaaaa tattttttgtt ttgtacgaga gtttgttgct ctgtatgact 1020
cctgtatgca ttgtatattg caatttatta ctgtcagaga tttgtagaca gtttcttatt 1080
ttcatattga atcatgttac ttttgtaatt caagtaagcg ctgggttaa ttcatgatgt 1140
ttgcccttttt aataaaatat aagggtagag ttcattttga atgcaagttg cctttattat 1200
aaatttgagt ttgtcttggt tataccttgc atgataacct agctagattt ctagcatttg 1260
ctgtatttat taaaattatt atttttttgg taaaacatta atagtttaag cagcatcatt 1320
tttttaaaaa atgtaattga ataagtgtga atgcagaagc aaatattgtc tgccctgtta 1380
aacttggtgc ccattaacag tgtttacact gttcatcgtg cctgttaatg tagtttagt 1440
taytggagct tttttaagac tagatttggt tttgagttac attttttaaga atgtgggaat 1500
atatttaagt ttaatgtagt cctagtgctc ttgaaatggt gccccttttca tttggtacat 1560
gattttttttt caaatcatat cttcaagtac tatagtattc tcttacagaa gaggagtttt 1620
atagtctgat ggtaaatgtc ttcattttac cttttttaatt gaaatgtcaa gtttcctgtt 1680
acactatgga aaccaagaaa catcagacat cattgcgtgt acagaccttt tgcatgggtg 1740
agtggatgaa atggagaaca gagtgagtgc tgtgaacggt gtgaaataga agccaacttc 1800
tagtatgctg tcttcatctc tgcaataaac taaacgtaaa taawrwaaaa aaaaaaaaaa 1860
aaaaaaaaaa aaaaaaaana aaaaaaaaaa aaaaaaaaa                          1900

<210> 124
<211> 1250
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (874)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1169)
<223> n equals a,t,g, or c
```

<400> 124
```
ggcacgagga ggaaactaac gattccctgc ccaccccac acccagcacc accaacaggt 60
gggcaagctt gccgagaaaa cgcagagggc atcctgtgag cagcaaacac atctgagcct 120
ggaaaagacg cagagaagta aaagatcaaa gtctgattgg caccggctcc cattccggct 180
ccagcctcca atccgacccc catttcggct gcagcctcgg acctagctcc ggccctcggt 240
ctatccggtt gcatcctccc tccctgttcc ggatcttatc ttgcgccagc gcctactcca 300
ggatcccgta gccagacctc aagccatggc tggtcccttc tcccgtctgc tgtccgcccg 360
cccgggactc aggctcctgg ctttggccgg agcggggtct ctagccgctg ggtttctgct 420
ccgaccggaa cctgtacgag ctgccagtga acgacggagg ctgtatcccc cgagcgctga 480
gtacccagac ctccgaaagc acaacaactg catggccagt cacctgaccc cagcagtcta 540
tgcacggctc tgcgacaaga ccacacccac tggttggacg ctagatcagt gtatccagac 600
tggcgtggac aaccctggcc accccttcat caagactgtg ggcatggtgg ctggagatga 660
ggagacctat gaggtatttg ctgacctgtt tgaccctgtg atccaagagc gacacaatgg 720
atatgacccc cggacaatga agcacaccac ggatctagat gccagtaaaa tccgttctgg 780
ctactttgat gagaggtatg tattgtcctc tagagtcaga actggccgaa gcatccgagg 840
actcagtctg cctccagctt gcactcgagc agancgacga gaggtggaac gtgttgtggt 900
ggatgcactg agtggcctga agggtgacct ggctggacgt tactataggc tcagtgagat 960
gacagaggct gaacagcagc agcttattga tgaccacttt ctgtttgata agcctgtgtc 1020
cccgttgctg actgcagcag gaatggctcg agactggcca gatgctcgtg gaatttggca 1080
caacaatgag aagagcttcc tgatctgggt gaatgaggag gatcatacac gggtgatctc 1140
catggagaag ggtggtaaca tgaagagant gtttgaaaga tctgccgagg cctcaaagag 1200
gtrgagagac tatgtagggg actaggtggg aggacataag gaaaaccaaa        1250
```

<210> 125
<211> 1189
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1041)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1144)
<223> n equals a,t,g, or c

<400> 125
```
cttttttttaa cccttttaggt atctgatcgc tttgccaatt ttgcgttact gggcaggcta 60
agagatcttc ttttaattca gcctgcttaa gacgggaact gataactgta gtgtatcctc 120
tgcctttttt cttatctatt ggaggaagct cagatggtgt cacaagaagg atctgaagtg 180
gagcttctag tatccccagg agcgcgaagt gaacacggaa ggtacctgca ggatccaatt 240
gtgtccattg atctctcaga gtggctgagg ataatagagt ttcttcttca aggtctcaag 300
gtctgaagca tcccacagaa tgatcctact gaataactcc cataagctgc tggccctata 360
```

```
caaatccttg gccaggagca tccctgagtc cctgaaggtg tatggctctg tgtatcacat 420
caatcacggg aacccttca acatggaggt gctggtggat tcctggcctg aatatcagat 480
ggttattatc cggcctcaaa agcaggagat gactgatgac atggattcat acacaaacgt 540
atatcgtatg ttctccaaag agcctcaaaa atcagaagaa gttttgaaaa attgtgagat 600
cgtaaactgg aaacagagac tccaaatcca aggtcttcaa gaaagtttag gtgaggggat 660
aagagtggct acattttcaa agtcagtgaa agtagagcat tcgagagcac tcctcttggt 720
tacggaagat attctgaagc tcaatgcctc cagtaaaagc aagcttggaa gctgggctga 780
gacaggccac ccagatgatg aatttgaaag tgaaactccc aactttaagt atgcccagct 840
ggatgtctct tattctgggc tggtaaatga caactggaag cgagggaaga atgagaggag 900
cctgcattac atcaagcgct gcatagaaga cctgccagca gcctgtatgc tcggcccaga 960
ggagatcccg gtctcatggg taaccatggg acccttcttg tgaagtagga atggcctaca 1020
gcatggaaaa ataccgaaga ncaggcaaca tgggcacgag tgatggtgcg atacatggaa 1080
atatctgcgt cagaaggaat atttccattt ttacatctct gtgttgggaa ggaaantgaa 1140
ggantccccg cagatttgtg gggggcagtt ttggtttctt ttgaggcct             1189
```

```
<210> 126
<211> 428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 126
gaggtcctga gagactgtra gagccccaac tccattagta ttatgggcct caatacttcc 60
cgggttgcaa ttaccctgaa gccccaagac cctatggaac agaacgtagc tgagctgttg 120
cagttcctgc tggtgaagga tcagagcaag taccctatcc gggagtctga aatgcgggaa 180
tatattgtta aagaatatcg caaccagttt cctgagatac tcaggcgagc agcagcccac 240
ctggagtgca ttttaggtt tgaattgaga gaacttgacc ctgaggcaca cacctacatt 300
ctgttaaaca aactgggacc tgtgcccttt gaagggttag aagagagccc aaatgggcca 360
aagatgggcc tcctgatgat gattctangc caaatattcc tgaatggcaa ccaagccaag 420
gaggctga                                                          428
```

```
<210> 127
<211> 645
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<400> 127
acgcggtcgg ccgggagccg gggaggagcg tggacgccgg cctggcaggt accccgcga 60
gaacgtggga gccggtgtat ttcagctgca tttattactg atctcgggct gcaccagggc 120
acttgtagga ccgcactaaa aacagcggaa agtgaggagc caagcctggg tccggggcgg 180
cccgccgtac agctggcctc acggattcca ctgcctgcgc ctgcagatga cttgttctgg 240
agagtagaga atgtnctcgg atttaaagta caatccggtt tcctttccat tcattatagt 300
```

```
tgcctacact caacaaacaa aagttgggaa agataaaggg attattctag cgcgtcacat 360
tgacaaacac cgacgttaac acgctcagtc cagcctgact cacttgcctc aggtcagaga 420
ggtcaccact gacgacgccg ggccctcaag ccgatcctaa tccagcttgg ttctctcagc 480
ctcagccaga ccatccgttc ttgcctctgt cccaccacgt gcaggtgtaa gyttccgccg 540
cacttcttgt ctgaatctgc caaggaagga aactggcatc tttcagctta aattcttttt 600
cacttgatca ggggtaggag tttaggcggt tttttttttt aagga                645
```

```
<210> 128
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (490)
<223> n equals a,t,g, or c

<400> 128
ctggagtctc aacgacgcgc acacgagaag taaggagcgg aaggtgggaa agggccggaa 60
aacacacgtt cctccgaaac cggtttgcaa gtccttgtag agagtgatag attcgtgtgg 120
cctttcaaat gattgtgaag tggtggaaat ggatccaaaa taataagtga cttctctacc 180
aaagcataga agattcttca tatctccttc cagtggctca atttagattt tgggaargag 240
cagaacaagt gaaacacaga aaactgaaga gaagaaatcc tcattttgga cctatatttc 300
tccttgacta tttcttaata tccatcctac ccatcgttct aatgttttaa ctttgctctg 360
aatttataaa tagtaaaggc caaagacata gaatatacat ttagtagctt tataccaaga 420
aatttgcctt gaaagctgct gtscgtggag gggaaagtgt agcaaattcc tggcnatttg 480
naattttaan ttattg                                              496
```

```
<210> 129
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<400> 129
ctggcggccg caggagcgcg tgcggcgtgg actttgccgg gctcgccaca cagccccaga 60
cccgtttagg accgggagac cgaacgcagc gwccagccgg ggagtttcgg cggcgttctc 120
```

```
cgggcaccgc gcgcggaagc cagacgcagc gggggggacac atctcgcggt ggcgttgcca 180
gagtgaggag ttagcaggca ggacttgacg aggctctttg gtttttctag tcctcaacca 240
ctgaagaaga agcttgatgc ttggctgtca gaagacatga attacgcacg gttcatcacg 300
gcagcgagcg cancagaaac ccttctccca tccggaccat gactgacata ttgagcagag 360
gaccaaaatc gatgatctcc ttggctggtg gcttaccaaa tccaaacatg tttcctttta 420
agac                                                            424
```

<210> 130
<211> 1709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (881)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1028)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1061)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1168)
<223> n equals a,t,g, or c

<400> 130
```
tggaccgcag cttcctggaa gacacaaccc ccgccaggga cgagaagaag gtgggggcca 60
aggctgccca gcaggacagc sacagtsatg gggaggccct gggcggcaas ccgatggtgg 120
carggttcca ggacgatgtg gacctcgaag accagccacg tgggagtccc ccgctgcctg 180
caggccccgt ccccagtcaa gacatcactc tttcgagtga ggaggaagca gaagtggcag 240
ctcccacaaa aggccctgcc ccagctcccc agcagtgctc agagccagag accaagtggt 300
cctccatacc agcttcgaag ccacggaggg ggacagctcc cacgaggacc gcagcacccc 360
cctggccagg cggtgtctct gttcgcacag gtccggagaa gcgcagcagc accaggcccc 420
ctgctgagat ggagccgggg aagggtgagc aggcctcctc gtcggagagt gaccccgagg 480
gacccattgc tgcacaaatg ctgtccttcg tcatggatga ccccgacttt gagagcgagg 540
gatcagacac acagcgcagg gcggatgact ttcccgtgcg agatgacccc tccgatgtga 600
ctgacgagga tgagggccct gccgagccgc ccccacccc caagctccct ctccccgcct 660
tcagactgaa gaatgactcg gacctcttcg ggctggggct ggaggaggcc ggacccaagg 720
agagcagtga ggaaggtaag gagggcaaaa cccctctaa ggagaagaag aagaagaaga 780
aaaaaggcaa agaggaagaa gaaaaagctg ccaagaagaa gagcaaacac aagaagagca 840
aggacaagga ggagggcaag gaggagcggc gacggcggca ncagcggccc ccgcgcagca 900
gggagaggac ggctgccgat gagctggagg ctttcctggg gggcgggggcc cggcggccg 960
ccaccctggg ggtggcgact acgaggagct ctaggccggc gtgggcagtg gccgccctgg 1020
ggcggggngc gtgcctgtca ctgcctgggg aggcatttgc ntctgtacca tcgcctttgc 1080
```

```
cgctgccccg tggctgccgt gtgcgcttct gagctggaag aggccgggca ttggtggtcc 1140
ccaggctggg ccctgcaggt gctgggcntt cagccyagtg tgagcctgct ctgcaagaag 1200
ggaggggaca gctggcttca gccaggctcg gtggacaccc tggccctctc ggggcagagc 1260
cgccagtgtt tctcagggat gtgactgagg cccaggaggg acctgtgagg gtctgtttac 1320
agaggctggg caggggccgc ttggctgtgg ggtgtgcgct gccccggcac ctgcttgccc 1380
tccgcgctca tctggggccg cagcatgcct atggttccgc ttccggccgg gagccctgaa 1440
cacgggtgtg cagactcacc ctaaagggcg gcccaggccc cacgctagaa ggctggcgag 1500
accgaagcag catgtgaggc ctctcctggg agtggggggtt gtgtttccca cagtggcctc 1560
agctgcgccc ccgctcaggt gagcccgaag gcaggagccg ggaggcactc ctcccaaaca 1620
ctccactcag accataaagc actcctgttt cactctgaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaagggcg ccgctcgcga tctagaacc                                 1709
```

<210> 131
<211> 866
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (723)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (740)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (793)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (813)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (841)
<223> n equals a,t,g, or c

<400> 131
```
ctcgctcgga ttggttcagt gcactctaga aacactgctg tggtggagaa actggacccc 60
aggtctggag cgaattccag cctgcagggc tgataagcga ggcattagtg agattgagag 120
agactttacc ccgccgtggt ggttggaggg cgcgcagtag agcagcagca caggcgcggg 180
```

```
tcccgggagg ccggctctgc tcgcgccgag atgtggaatc tccttcacga aaccgactcg 240
gctgtggcca ccgcgcgccg cccgcgctgg ctgtgcgctg gggcgctggt gctggcgggt 300
ggcttctttc tcctcggctt cctcttcggg tggtttataa aatcctccaa tgaagctact 360
aacattactc caaagcataa tatgaaagca tttttggatg aattgaaagc tgagaacatc 420
aagaagttct tatataattt tacacagata ccacatttag caggaacaga acaaaacttt 480
cagcttgcaa agcaaattca atcccagtgg aaagaatttg gcctggattc tgttgagcta 540
gcacattatg atgtcctgtt gtcctaccca aataagactc atcccaacta catctcaata 600
attaatgaag atggaaatga gattttcaac acatcattat ttgaaccacc tyctycagga 660
tatgaaaatg gttcggatat tgnaccacct ttcagtgctt tctctcctca aggaatgcca 720
ganggcgatc tagtgtatgn taactagcac gaactgaaga cttctttaaa ttggracggg 780
acatgaaaat canttgctct ggggaaaatt gtnattgcca agatatggga aagttttcaa 840
naggaaataa gggttaaaaa tgccca                                      866
```

```
<210> 132
<211> 1593
<212> DNA
<213> Homo sapiens
```

```
<400> 132
gttgtagtga gctgagatca tgccactgca ctccaacctg ggtgacagag cgagactcca 60
tctcaaaaat aaataaataa ataaataaat aaaaccttaa tttgatggtg gttttatgtc 120
tgccatttcc atttagattc aaagaatcct aagaataatg gtggagcaaa gcttattttt 180
ctgttttttg aatcttgtaa ggcatggtgc caaacccaat gaaatggtgc caaaaagtcc 240
tgcagctgga actagagcta gagtctaagg gttctgatcc ttagctccaa ggccttctca 300
taaatccttt gacactttca ccctccaaca cagtcagtca gtctctgttt ttctggttgg 360
gtttctatat aaaactttcc attttgagta atgatctttc cctcttgcct tttcttctac 420
atattccaat aaagaccttt tttgtcttca actcctgtca cttggattcc aggacttctt 480
ccatccctca tgtttgttcc ttactttgcc agcctcggcc atttctgtat ccccctgcct 540
gggkttgctg ccctttatgc tcctamctca ccaggtacaa ggaacatgaa gatggctata 600
tgcggctgca gctggttcgc tamgagagtg tagagctgac acagcaactg ctgcggcaac 660
cacaagaggg atcgggctgg gaacgtcgct gaacgagagc agcctgcarg gsattattct 720
agaaacagtg ccaggggagc caggacgtaa ggaagaggaa gaggagggca agggtagcga 780
aggGacagcc ctctcagcct ctcaggacaa ccccagttct gtcatccacg tggtgaatca 840
gaccaatgcc caaggccagc aararattgt ytactatgtg ctgtctgaag ccccagggag 900
ccttcccCca gccCctgagc caccttcagg gggcatcatg gaaaagcttc aaggaatagc 960
tgaggagcca gagatccaga tggtttgaag gccgcagagc cagaccattt cttccccagg 1020
tcctgaagtt tgagccaggc aagtggcagt gcccctagtg ggcagccgtt gccaatggat 1080
gcctttagga gtggtgccga gagcagtgtg gtccactctg cctgggttt gcatcattct 1140
gcagactcta aagacttccc ttttctgcca gactacattt tgtggggagc ctgaggactc 1200
tggattcttt gaggggatcc tggatgtgtg tgttcttgtt aaagaggctg ttatcaggct 1260
taacyataac cctcaagatc tgcttgacag tgattaaatc cttagctcac atccattccc 1320
atctttcggg ctccttaggc ccaaggatgg catgtgactg tccctgcaa gggtcctttc 1380
tttgtcacca gccaaggcat tgataaccaa gtagccattt tcctcttaag gtttcctcta 1440
caaccccaag gactttcatg attatcctca gggacaggat tggaggcatt gagcgtgttt 1500
attaacaaat tgtttttggt aataaaataa atgcttggaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaactcg tag                               1593
```

```
<210> 133
<211> 408
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<400> 133
tccttctgac gtcaatgtga tggcggaatc gctgaaggat atggaagcag atgcgcagaa 60
actgtaccag ttaatctggc gtcagttcgt tgcctgccag atgaccccag cgaaatatga 120
ctccacgacg ctgaccgttg gtscgggcga tttccgcctg aaagcacgcg tcgtatttt 180
gcgttttgay ggctggacàa aagtgatgcc tgcgttgcgt aaaggcgatg aagatcgcat 240
cttaccagca gttaataaag gcgatgctct gacgctcgtt gaacttacac cagcccagca 300
ctttaccaag ccgccagccc gtttcagtga agcatcgctg gttaaagagc tggaaaaacg 360
cggtatcggt cgtccgtcta nctatgcgtc gatcatttcg accattca           408


<210> 134
<211> 2741
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1673)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (2736)
<223> n equals a,t,g, or c


<400> 134
cggcgttaag acttcgtagg gttagcgaaa ttgaggtttc ttggtattgc gcgtttctct 60
tccttgctga cyctccgaat ggccatggac tcgtcgcttc aggcccgcct gtttcccggt 120
ctcgctatca agatccaacg cagtaatggt ttaattcaca gtgccaatgt aaggactgtg 180
aacttggaga atcctgtgt ttcagtggaa tgggcagaag gaggtgccac aaagggcaaa 240
gagattgatt ttgatgatgt ggctgcaata aacccagaac tcttacagct tcttcccttA 300
catccgaaga caatctgccc ttgcaggaaa atgtaacaat ccagaaacaa aaacggagat 360
ccgtcaactc caaaattcct gctccaaaag aaagtcttcg aagccgctcc actcgcatgt 420
ccactgtctc agagcttcgc atcacggctc aggagaatga catggaggtg gagctgcctg 480
cagykgcaaa ctcccgcaag crgttttcag ttcctcttcg gaggaaatca tgtcttgtga 540
aggaagtgga aaaaatgaag gaacaagcga gaagagaaga aggcccagaa ytctgaawtg 600
agaatgaaga gagctcaggw gtatgacagt agttttccaa actgggaatt tgcccgaatg 660
attaaagaat ttcgggctac tttggaatgt catccactta ctatgactga tcctatcgaa 720
gagcacagaa tatgtgtctg tgttaggaaa cgcccactga ataagcaaga attggccaag 780
aaagaaattg atgtgatttc cattcctagc aagtgtctcc tcttggtaca tgaacccaag 840
ttgaaagtgg acttaacaaa gtatctggag aaccaagcat tctgctttga ctttgcattt 900
gatgaaacag cttcgaatga agttgtctac aggttcacag caaggccact ggtacagaca 960
atctttgaag gtggaaaagc aacttgtttt gcatatggcc agacaggaag tggcaagaca 1020
catactatgg gcggagacct ctctgggaaa gcccagaatg catccaaagg gatctatgcc 1080
atggcctycc gggacgtctt cctcctgaag aatcaaccct gctaccggaa gttgggcctg 1140
gaagtctatg tgacattctt cgagatctac aatgggaagc tgtttgacct gctcaacaag 1200
```

```
aaggccaagc tgcgcgtgct ggaggacggc aagcaacagg tgcaagtggt ggggctgcag 1260
gagcatctgg ttaactctgc tgatgatgtc atcaagatgm tcgacatggg cagcgcctgc 1320
agaacctctg ggcagacatt tgccaactcc aattcctccc gctcccacgc gtgcttccaa 1380
attattcttc gagctaaagg gagaatgcat ggcaagttct cttttggtaga tctggcaggg 1440
aatgagcgag gcgcrkacac ttccagtgct gaccggcaga cccgcatgga gggcgcagaa 1500
atcaacaaga gtctcttagc cctgaaggag tgcatcaggg ccctgggaca gaacaaggct 1560
cacaccccgt tccgtgagag caagctgaca caggtgctga gggactcctt cattggggag 1620
aactctagga cttgcatgat tgccacgatc tcaccaggca taagctcctg tgnaatatac 1680
tttaaacacc ctgagatatg cagacagggt caaggagctg agcccccaca gtgggcccag 1740
tggagagcag ttgattcaaa tggaaacaga agagatggaa gcctgctcta acggggcgct 1800
gattccaggc aatttatcca aggaagagga ggaactgtct tcccagatgt ccagctttaa 1860
cgargccatg actcagatca gggagctgga ggagaaggct atggaagagc tcaaggagat 1920
catacagcaa ggaccagact ggcttgagct ctctgagatg accgagcagc cagactatga 1980
cctggagacc tttgtgaaca aagcggaatc tgctctggcc cagcaagcca agcattctc 2040
agccctgcga gatgtcatca aggccttgcg cctggccatg cagctggaag agcaggctag 2100
cagacaaata agcagcaaga aacggcccca gtgacgactg caaataaaaa tctgtttggt 2160
ttgacaccca gcctcttccc tggccctccc cagagaactt tgggtacctg gtgggtctag 2220
gcagggtctg agctgggaca ggttctggta aatgccaagt atgggggcat ctgggcccag 2280
ggcagctggg gaggggtca gagtgacatg ggacactcct tttctgttcc tcagttgtcg 2340
ccctcacgag aggaaggagc tcttagttac ccttttgtgt tgcccttctt tccatcaagg 2400
ggaatgttct cagcatagag ctttctccgc agcatcctgc ctgcgtggac tggctgctaa 2460
tggagagctc cctgggggttg tcctggctct ggggagagag acggagcctt tagtacagct 2520
atctgctggc tctaaacctt ctacgccttt gggccgagca ctgaatgtct tgtactttaa 2580
aaaaatgttt ctgagacctc tttctacttt actgtctccc tagagatcct agaggatccc 2640
tactgttttc tgttttatgt gtttatacat tgtatgtaac aataaagaga aaaaataaaa 2700
aaaaaaaaa aaaaaaaaaa aaaaagggg ggggncccc c                          2741
```

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<210> 135
<211> 686
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

<400> 135
tcttcctttt ttccgcctct cgttcgcttt tgtcttacga ggcttccgga acacggccca 60
gaattacaga gaaaacacac ctgcacgcgc actctctcgt acacgctgtg cggcttctgt 120
ttggttggcc agttcgtccc aatttccgac tcacaggctg cggagcagca actctcacga 180
tatttgctcg acccgcaggc gtatccgctg ccgggtctg gcgcgcctt tcagttctgc 240
ttgctgtcsg caccgctgcg ttacccggaa ccgccgggcc gaacagcatg acgtccgctt 300
tggagaacta catcaaccgt atcctcaagc tggcgccgcg ggcgtgagcc ggggtcgcgg 360
agaggccgcg gtcggggatc ggtgggaggt tgggaggcct ggcctcggcg ggatcctggg 420
ggcgggcgag gagatgaggg ccccggaacg acccagagtt cgccggcggc gcctcgagcc 480
```

```
ttcccgctgc tgcgggccca rgggtccttt ccattttgcc tgcaaaaccc aaataaaaac 540
ccagtgtgat tattccgaac ttttctgtct taaaaaaaat gtacgctctt gattcttact 600
tactatttcc ctatggcata agtgttaaag tttgtganta agatgaacag tcgtnctggc 660
ggcgacaaca gtttgcaatc tttgta                                      686
```

<210> 136
<211> 242
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<400> 136
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cagcttactc tcaatatatc tctcttactc tctctctctc tctctttttt ttttaatatg 60
gtgaaattag accagggggtc agaacataga ttttagtctc ctttagttca tctactagga 120
gactaaatta gataatctct aaactccctt ttagttctaa aattctgtaa ttaaactcta 180
gcatatcatc attttagact aaaagttttc ttcttcttct tctttttttnt tttggttttt 240
tn                                                               242
```

<210> 137
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (534)
<223> n equals a,t,g, or c

<400> 137
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caggaagagc ccaactgggt atcagaataa gccacatgca ccttctgaaa ctgcccaaat 60
ccacacctgc ataagaattt gagcccagtt cataaagcag atcatgaagc aattatcttc 120
ctggaagggt ttttagcttg ctctccagtt gcctcagcag ctttggctct gtgccacagt 180
```

```
gagcccaagg ggaaggtgat ggaacagcat cacatctgca ggctcagtgt tttgtttggt 240
gagggtaagg ggagggaatg tagacggatg aagaaatttc tccctactgc ttccattttg 300
atatttcttt aacttcacat ttcatcctca ttcctagcag ttgcctagtt atagaggatt 360
tcttttawct tttttcaga ggcatgccag gtggaagtga ggtgcttgst ggsctacaac 420
tccagtgctc gcaattccaa aatgnccctt ggatggaggg ttggtgagaa tgtcaccaca 480
gtgggaaacc agcaatcggg ggaaccattc ccttaagcaa gcctttnaaa gttnttttaa 540
tgccc                                                                545
```

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<210> 138
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<400> 138
tcctcgggga gcccagttgt gcccaccatt ctctgtaagg tggtcccagg gtgggcttag 60
gagcctataa tagtggccag tgccagagga ggctccctca agaaagccag agttgagatc 120
tggaggagga gagggagtta gccagaccag ggtggagatg agggtattct gagcagcagg 180
acctgcaggg gcacaaggca agggccgcat cctagaggag acccagtggc caggcacatc 240
atgggaactg caggctggcc ccaagcctct gccccgctcc tcccttgcag gcagggcctc 300
ctggagcctt gtgctcatcc tgggctcttg aggncccagc cctgcacaga gagcgcagac 360
gtgccttgcc ttncaacccg tccgctctgt cctctt                            396
```

```
<210> 139
<211> 2771
<212> DNA
<213> Homo sapiens

<400> 139
cggaggtgag gtttgttacc gcgattctga gaggtgggct tttagtccct ccagacctcg 60
gctttagtgc tgtctccgct tttctttcac cttcacagag atgtcttatg gtgaaattga 120
aggtaaattc ttgggaccta gagaagaagt aacgagtgag ccacgctgta aaaaattgaa 180
gtcaaccaca gagtcgtatg tttttcacaa tcatagtaat gctgattttc acagaatcca 240
agagaaaact ggaaatgatt gggtccctgt gaccatcatt gatgtcagag gacatagtta 300
tttgcaggag aacaaaatca aaactacaga tttgcataga cctttgcatg atgagatgcc 360
tggtaataga ccagatgtta ttgaatccat tgattcacag gttttacagg aagcacgtcc 420
tccattagta tccgcagacg atgagatata tagcacaagt aaagcattta taggacccat 480
ttacaaaccc cctgagaaaa agaaacgtaa tgaagggagg aatgaggcac atgttctaaa 540
tggtataaat gacagaggag gacaaaaaga gaaacagaaa tttaactctg aaaaatcaga 600
gattgacaat gaattattcc agttttacaa agaaattgaa gagcttgaaa aggaaaaaga 660
tggttttgag aacagttgta aagaatctga accttctcag gaacaatttg ttccatttta 720
tgagggtcat aataatggtc tcttaaaacc tgatgaagaa aagaaagatc ttagtaataa 780
```

```
agctatgcca tcacattgtg attatcagca gaacttgggg aatgagccag acaaatatcc 840
ctgtaatgga caagtaatac ctacattttg tgacacttca tttacttctt tcaggcctga 900
atggcagtca gtatatcctt ttatagtgcc ctatggtccc cctcttccca gtttgaacta 960
tcatttaaac attcagagat tcagtggtcc accaaatcca ccatcaaata ttttccaagc 1020
ccaagatgac tctcagatac aaaatggata ttatgtaaat aattgtcatg ttaactggaa 1080
ttgcatgact tttgatcaga acaatgaata tactgactgt agtgagaata ggagtagtgt 1140
tcatccctct ggaaatggct gcagtatgca agatcgatat gtgagtaatg gtttctgtga 1200
agtcagagaa agatgctgga aagatcattg tatggacaag cataatggaa cagacaggtt 1260
tgtgaaccag cagtttcaag aggaaaagtt aaataaattg cagaagttac ttattctttt 1320
aagaggtctg cctggttctg ggaaaacaac attgkctcga attctgcttg gtcagaatcg 1380
tgatggcatt gtgttcagca ctgatgacta ttttcaccat caagatgggt acaggtataa 1440
tgttaatcaa cttggtgatg cccatgactg gaaccagaac agagcaaaac aagctatcga 1500
tcagggaaga tctccagtta taatagataa cactaatata caagcttggg aaatgaagcc 1560
atatgtggaa gtggccatag gaaaaggata cagagtagag tttcatgaac ctgaaacttg 1620
gtggaaattt gatcctgaag aattagaaaa gaggaataaa catggtgtgt ctcgaaagaa 1680
gattgctcag atgttggatc gttatgaata tcaaatgtcc atttctattg taatgaattc 1740
agtggaacca tcacacaaaa gcacacaaag acctcctcct ccacagggga gacagaggtg 1800
gggaggctct cttggctcac ataatcgtgt ctgtgtcaca aataatcatt aaattagcta 1860
ttttcagcta acacatttgt tgttgcactt gaaaaagagt tagtgagcct gtcttggagt 1920
ttaagtagtt tcaaataaaa aaaggctaca gtgcctcaca aaggatgttc ccagcaagtt 1980
gtttaaattc ccagcaagtt gttaaagtgt aaataaaaat atatgaaatt gtattttaaa 2040
tgtttttata ttctcttgtt gtaatactct tggctgttat ggaagcacct gagtaataga 2100
gtggtgggta ggagctagga tgtttttcta caatcgaatt ttaaactaat ttatctattt 2160
tatagacact attgaacagt tttttaatag ttcatatcta aatctaactt ttcataaaac 2220
tttacggttt ttccttcact accttaaata tgcaagaaat actgacttgg tatagggtac 2280
cttagttttc tctattcatt agacaggtaa aattatattt cagctgattg atctgtgtga 2340
caaaattatt tcttagctat aatcagcaca tcacttagtt caaacaaaat tccccagcaa 2400
atgttagata gtaggtatat cagtcacctg gggagttttc ttcataatat gcatattcat 2460
cttgtaatgc atacatagtt atcatcctcc ttctcaaccc atctccctaa ccccacatgc 2520
ttgccagttc ttgaagggat aaagtgatts taataatgtt ttacttctct ctgttcaatt 2580
taatgtgata taattctagt ataaaaatat tttggacagt tgcttaacat ggtcataaga 2640
ggatttgtac tatagaatat cttctagtac taatttttct gtagagcaaa ttatatttct 2700
ctcactggat agttttttaga tgtgtttctt catataaaat taaaaactga gatggaattc 2760
aaaaaaaaaa a                                                        2771
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<210> 140
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (422)
<223> n equals a,t,g, or c

<400> 140
actaagggat actgctcaaa gttaagatga caattatcag tgatgtataa taagagatgc 60
tgaaataagg gtgataataa aggtcccggg cttgctcact catggtcaca gtaaaatttt 120
tatgcaagta tataccacct tacataaacc tcactttaga tatcctcaag tgattgcaca 180
tcaagatctt gcaaattgaa aaatacatta agtatgccat ggggttgact ttttatcaga 240
attcacacat gatttctttc ataagttcag gatcttttag ggtgcccata gccttgccta 300
tatttacgta ttttataaac ctacatttng gkatawgaag tcttttcytt tttttttgag 360
acgagtatcg ctctgtcgcc caggctggag tncagtggca ggatcttggc ccactgcaag 420
cn   422

<210> 141
<211> 1630
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1566)
<223> n equals a,t,g, or c

<400> 141
tggcggctct ggcggcctaa agaaggcgrc cgcggctcag cgtgggctct aacgcggggc 60
tgggggccgg agacagactt cgcccaggtg acgggtagta ggggcggcgc gcttggcctc 120
gtggggtgta agacccactt gctgttgccc ccggaccttg ccgccacacc agccctgtcc 180
tgggcggaa ccgaagaagg tcgggccctg ctgccccgcc ccgtccttcc tccttcccgg 240
gcggtcactg tgcgtggctc acttttagag tttacttcaa ccacgtggag cttccatggc 300
ggcctctcag gtcctggggg agaagattaa catcctgtcg ggagagactg tcaaagctgg 360
ggacagggac ccgctgggga acgactgtcc cgagcaagat aggctccccc agcgctcctg 420
gaggcagaag tgtgcctcct acgtgttggc cctgaggcct ggagcttcag tgcctcactc 480
acaccggtgg ccctgggcag tgcccttgcc tacagatccc acggtgtcct ggatcccagg 540
ctcttggtgg gttgtgccgt ggctgtcctg gctgtgcacg gggccggtaa tttggtcaac 600
acttactatg acttttccaa gggcattgac cacaaaaaga gtgatgacag gacacttgtg 660
gaccgaatct tggagccgca ggatgtcgtc cggttcggag tcttcctcta cacgttgggc 720
tgcgtctgtg ccgcttgcct ctactacctg tcccctctga aactggagca cttggctctt 780
atctactttg gaggcctgtc tggctccttt ctctacacag gaggaattgg attcaagtac 840
gtggctctgg gagacctcat catcctcatc acttttggcc cgctggctgt gatgttcgcc 900
tacgccatcc aggtggggtc cctggccatc ttcccactgg tctatgccat ccccctcgcc 960
ctcagcaccg aggccattct ccattccaac aacaccaggg acatggagtc cgaccgggag 1020
gctggtatcg tcacgctggc catcctcatc ggccccacgt tctcctacat tctctacaac 1080
acactgctct tcctgcccta cctggtcttc agcatcctgg ccacacactg caccatcagc 1140
ctggcactcc ccctgcttac cattcccatg gccttctccc ttgagagaca gtttcgaagc 1200
caggccttca acaaactgcc ccagaggact gccaagctca acctcctgct gggacttttc 1260
tatgtctttg gcatcattct ggcaccagca ggcagtctgc ccaaaattta aggggacaag 1320
tagctccccc cacgacatgt ctccctttct tagaatatat aaagtcaga gtctctgagg 1380
aaggaatgtg atttggcagt caggtacta agcatggtg ggaactcctg ccttataaaa 1440
attgttttg tgttcttaaa gataatatgt tgtttttctg tttttgttt tttccatttt 1500
atggggggaat ttaaaaacca ttcttgtatc agaaggtgaa ttaggcgcat ggtctttgtt 1560

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ttattnaata aatttccact agagggtgtt ctcaggtcac tttgcagtgg aagtgggact 1620
tagttcctcc                                                          1630
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<210> 142
<211> 264
<212> DNA
<213> Homo sapiens

<400> 142
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accaggatgt ctctgaaatg gacgtcakct ttctgctgat acagctcagt tgttacttta 60
gctctggaag ctgtggaaag gtgctagtgt ggcccacaga atacagccat tggataaata 120
tgaagacaat cctggaagag cttgttcaga ggggtcatga ggtgactgtg gtwracatcy 180
tcggcttcta ctcytgtcaa tgccagtaaa tcatctgcta ttaaattaga agtttatcct 240
acatctttga actaaaaatt attt                                         264
```

<210> 143
<211> 636
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<400> 143
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antccaccng gtggaggccg ctctagaact agtggatccc ccgggctgca ggtgcgggca 60
attcgtctgg cgctggaagg ggttgatgtc aaactggaac aggccgcaag aacactgggg 120
gccgggcgct ggcgcgtttt ctttactatc acgttaccgc tgaccttacc gggaattatt 180
gttggtacgg tactggcttt tgctcgttct ctcggtgagt ttggtgcaca tcacctttgt 240
gtcgaacatt cctggtgaan gcggaaccat tccttctgcc atgtataccc tgatccagac 300
```

```
ccccggcggg aaaagtggag cgncgagact gtgccattat ttctattgcg ctggcgatga 360
tctccctgtt gatttcagaa tggctggcca gaatcagccg tgaacgggcg gggcgctaat 420
catgctggaa ctgaattttt cccagacgtt gggcaaccat tgcctgacta ttaatgaaan 480
taccgtactt caatccataa agttgcgtta agccgcacgg ttcaaaacgg ctgggcacca 540
gaatgacgtc cgcgccgccc ataatgcgat gcgaawatgc tcgtgatagc caatctgaac 600
gcccacctga ccggggtatt tccgtgccgc cgcaag                           636
```

```
<210> 144
<211> 500
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<400> 144
ccgccctcgg cgtcctctgt agcgggcgac ctaggccgcg ggacccggac ggaggtagag 60
gccagggcag cgcgtccggg agcggagtcc gcgcccgccg ccgccatgcc ggacagctgg 120
gacaaggatg tgtaccctga gcccccgcgc cgcacgccgg tgcagcccaa tcccatcgtc 180
tacatgatga aagcgttcga cctcatcgtg gaccgacccg tgaccctcgt gagagaattt 240
atagagcggc agcacgcaaa gaacaggtat tactactacc accggcagta ccgccgcgtg 300
ccagacatca ctgagtgcaa ggaggaggac atcatgtgca tcaaaktcga ccaagaaatt 360
atcacattat gcaggatcgg ytcaaagcyt ktcagcagag ggaaggacag actaccagca 420
gactgtatca aggaaktgga gcagttaccc aggtggccaa ggctaccagg gaccgntatc 480
aggacctgng ggcctacatg                                            500
```

```
<210> 145
<211> 1945
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1934)
<223> n equals a,t,g, or c

<400> 145
ggcacgaggc tgctgctttc ctctctgtta aagagaatgt tcaaggccga ggacacataa 60
aaaagagcag cattgctggc tctgttattt agctgtgtgt tcttgaaaaa gtcacttctc 120
cagacatatc tcagcattta taacctaaga ctgaatcact gcattttacc cttaatgagg 180
tacgcttaca ctaatctttt tgaaacagta cttaaattgt agcaggacaa gccgcagaca 240
aaacccctca gccagcgagt ttaagaaaga agggctttat tcggccggga tcttcggcaa 300
gactcacgtc tccaacaacc aagctcccca agtttccggt tctgtcacct ccaggctgag 360
ccgggctggc ggaagaggca cgtgcgctgc tgaatggagc tggtcgctgg ttgctacgag 420
```

```
caggtcctct ttgggttcgc tgtacacccg gagcccgagg cttgcggcga ccacgagcaa 480
tggactcttg tggctgactt cactcaccat gctcacactg cctccttgtc agcagtagct 540
gtaaatagtc gttttgtggt cactgggagc aaagatgaaa caattcacat ttatgacatg 600
aaaaagaaga ttgagcatgg ggctctagtg catcacagtg gtacaataac ttgcctgaaa 660
ttctatggca acaggcattt aatcagtgga gcggaagatg gactcatctg tatctgggat 720
gcaaagaaat gggaatgcct gaartcaatt aaagctcaca aaggacaggt gaccttcctt 780
tctattcacc catctggcaa gttggccctg tcggttggta cagataaaac tttaagaacg 840
tggaatcttg tagaaggaag atcagcattc ataaaaaata taaaacaaaa tgctcacata 900
gtagaatggt ccccaagagg agagcagtat gtagttatca tacagaataa aatagacatc 960
tatcagcttg acactgcatc cattagtggc accatcacaa atgaaaagag aatttcctct 1020
gttaaatttc tttcagagtc tgtccttgca gtggctggag atgaagaagt tataaggttt 1080
tttgactgtg attcactagt gtgcctctgc gaatttaaag ctcatgaaaa cagggtaaag 1140
gacatgttca gttttgaaat tccagagcat catgttattg tttcagcatc gagtgatggt 1200
ttcatcaaaa tgtggaagct taagcaggat aagaaagttc ccccatcttt actctgtgaa 1260
ataaacacta atgccaggct gacgtgtctt ggagtgtggc tagacaaagt ggcagacatg 1320
aaagaaagcc ttcctccagc tgcagagcct tctcctgtaa gtaaagaaca gtccaaaatt 1380
ggcaaaaagg agcctggtga cacagtgcac aaagaagaaa agcggtcaaa acctaacaca 1440
aagaaacgcg gtttaacagg tgacagtaag aaagcaacaa aagaaagtgg cctgatatca 1500
accaagaaga ggaaaatggt agaaatgttg gaaaagaaga ggaaaaagar gaaaataaaa 1560
acaatgcagt gaatcacaga tgtctcctga aagaactctt ttagatgaaa tcattctact 1620
caaatgtacc ttaatttttt tttttccct gagtaaaagc aagaaatttc ttcctttgga 1680
aaaaatatat atattaaaaa accacttta gatggttttt tttaaaaaaa aaaaaaaact 1740
ggtaaaatta cttttggcag acagtgtttt atgaattatg tatcatgttg atatataata 1800
tgttaatgtg tcatgtaatt tttactttgt acaaagcaaa taaagatctt tctcaaaata 1860
tactgtaaaa taatataaaa tattgaacac attctttatc aaaaaaaaaa aaaaaaaaaa 1920
ttactgcggt ccgncaaggg aattc                                        1945
```

<210> 146
<211> 1114
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1006)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1034)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1055)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1084)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (1108)
<223> n equals a,t,g, or c

<400> 146
agagtgcgct gcgtttcgat gagccgggac gtggcgccrc tctagccagc gcctgggctc   60
tgtggcgggc gccgcagctc cgcgtccccc gcgcctcctc ccagcgcaga cttcaagggc  120
taccactgga cccttcccct gtcttgaacc ctgagccggc accatgcacg gacgcctgaa  180
ggtgaagacg tcagaagagc aggcggaggc caaaaggcta gagcgagagc agaagctgaa  240
gctataccag tcagccaccc aggccgtatt ccagaagcgc caggctggtg agctggatga  300
gtccgtgctg gaactgacaa gccagattct gggagccaac cctgattttg ccaccctctg  360
gaactgccga cgagaggtgc tccagcagct ggagactcag aagtctcctg aagagttggc  420
tgctctggtg aaggcagaac tgggcttcct ggagagctgc ctgcgggtga accccaagtc  480
ttatggtacc tggcaccacc gatgctggct gctaggcsgc ctgcctgagc ccaactggac  540
ccgagagctg gagctctgtg cccgtttcct ggaggtggat gagcggaact tcactgctg   600
ggactatcgg cggtttgtgg ccacacaggc agccgtgccc cctgcagaag arctagcctt  660
cactgacagc ctcatcaccc gaaacttctc caactactct tcctggcatt accgctcctg  720
tctcttgccc cagctgcacc cccagccgga ttctggacca caggggcgcc tccctgagga  780
tgtgctgctc aaagagctgg agctggtgca gaatgcttct tcactgaccc caatgaccag  840
agtgcctggt tttatcaccg ttggctccta ggccgagctg accccccagga tgcactgcgc  900
tgcctgcatg tgagccggga csaggcctgt ctgactgtct ccttctctcg gsccctctta  960
rtgggctyca ggatkgagat cttgctgctc atgggtgatg aatctncccc tgattgtgga 1020
atggaggacc ccanatggca ggaacccggg ccaanctgtc tggtattcca agatggtggg 1080
gcanaaattg ggctggggca aggctggntg gaaa                             1114
```

```
<210> 147
<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<400> 147
ctcgggctga gtagtggcgt ggccgtgagg tccctgcgcc tgcgccctgg atggtcctgg   60
tgccgctccc gccttcgcag ccagcgcggg cttacctagt gttaagtctc tcttcttggg  120
tggcccacgc ctaagcgacc tatgcttctt gttcttctga aatcttacag ttccccttag  180
atgtaggttg gctattggta gcttccgatt cagataagtt tggaacttga cagatgtttt  240
cggggggctg ctttagagag aggctttgga ctatgcaagg ggaggaagga ggttcagaaa  300
aacgggtcg ggggtcggc aggacgactc ttraartgtg gaaggtggaa gctggagggg  360
gagataaagg gcaccraaga ccagcttgtt tgctcctatc aaggtgatcc tttccagagc  420
aagagccata tgnatgtcta gtcgcacgag tttgtgccaa gtcctttgca aaaaccttca  480
```

gatgtnggat ctcatgtaat cttgaagaca tcttagtcgt cctaagggtt aattatttaa 540
ttgatg   546

<210> 148
<211> 1763
<212> DNA
<213> Homo sapiens

<400> 148
ccgaccccag ccctagcctc tggggcattg tctgcccttc gccgtcggcc ctccgcctag 60
ccgcgcactt cccgccctcc caccttcctt tcgcccttcc accakacctc cctcgacgcc 120
cgacagctgc tctgggtact gtttccgggt cagggtgacc tctggggtga ggaaactgcg 180
actgggagcg ggacccaggc gtgcagcatt cgccatgctc cgctcacgcg tgggagactg 240
ggctgtgggg taccggcccg gaaagcacgc agcctccaaa gccgccttcc tcaggaaat 300
ttgcgtgacc ttactgccct ccgtctacag gccttgtacc tctccaggcc gattttttcca 360
caatttaaat cccagttcac ctggtatcca gctccagcaa cttagagcgt ttcacgtcac 420
gccgggcgcc aggcgtcggc ttgtataacc tgaaaacgct cctgttttc tcatctgtgc 480
agtgggtttt gattcccacc atggccatca cccagtttcg gttatttaaa ttttgtacct 540
gcctagcaac agtattctca ttcctaaaga gattaatatg cagatctggc agaggacgga 600
aattaagtgg agaccaaata actttgccaa ctacagttga ttattcatca gttcctaagc 660
agacagatgt tgaagagtgg acttcctggg atgaagatgc acccaccagt gtaaagatcg 720
aaggagggaa tgggaatgtg gcaacacaac aaaattcttt ggaacaactg gaacctgact 780
attttaagga catgacacca actattagga aaactcagaa aattgttatt aagaagagag 840
aaccattgaa ttttggcatc ccagatggga gcacaggttt ctctagtaga ttagcagcta 900
cacaagatct gccttttatt catcagtctt ctgaattagg tgacttagat acctggcagg 960
aaaataccaa tgcatgggaa gaagaagaag atgcagcctg gcaagcagaa gaagttctga 1020
gacagcagaa actagcagac agagaaaaga gagcagccga caacaaagg aagaaaatgg 1080
aaaaggaagc acaacggcta atgaagaagg aacaaaacaa aattggtgtg aaactttcat 1140
aacacatgtt caaattttat catgccagta ggagaaatct cagctccaca acccaagcaa 1200
catttgtatg gatttaagag tattttaaga agacatactg cttgatttta atacattgat 1260
caggccatcc aggacaccac gattctccca aagtaccttg aactcttagt gattgagact 1320
caaaaaaaca aaaagacttt gagacaatgt tttcttcaac atgctccaaa tataagacat 1380
ttgtttgctg tacagaaagt atcacaaatg gaatatatca gtacctctca agctagtgtt 1440
tctagctaaa taaatgggtg tatataattt tatggtggaa aagaactgta ctgtctgtta 1500
tgatttcctt caatgtgcat aatgataaaa taaataattt taatattctt ttgtttccat 1560
ggttacctga cctaaattag ataaattgta gggctttagc tttcttattt ttgtcaaaag 1620
ttggtgttga catacattcc ctctaatttg aactggtatt gtttacgttt gatacaacat 1680
taaggaattt gatgattttc atttcatgaa aatgacatta aatgcaataa ttttacttat 1740
cataaaaaaa aaaaaaaaaa aaa   1763

<210> 149
<211> 371
<212> DNA
<213> Homo sapiens

<400> 149
aattcggcac gagcagactt gagagcaata aatgcaaacc taaatgagaa aatggaatcc 60
ctgacagctg tgtccgtatc aagcatcagt ctctcaaaca gttgccccag cctgacagtg 120
ctagtctctg tttaatggta aaaggagact ttgccataat tttcagatga agatgtttcc 180
caaacactgt ttacagaatg agatgtgact ctacagatac ctcatagaag acaatccaag 240
atcatacttc attaacttga cagagtacgt gtcttaaagg aagcatcagg aattccaata 300

```
tttgcmtttta aaatactttt twagggcctt ttatattagg ccatgcttgg aaaactggat 360
tttttttatt a                                                       371
```

<210> 150
<211> 432
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

<400> 150
```
atnttcagga atcctcacgc aacccggaag aagcgcaagg gctggaccgc taaacctgag 60
ggcgcccggc ctgcgcacgg gaacctggac tggaacccta cttgcaggtc cccaacttgc 120
gtctctyctc tctgtctcta ccccagccaa ggacaaagac ttctcctccg gaaggcctcc 180
cccagctgag ggaacgttcc aggtcytccc tcggccctgg ctgcgcgccc ggtgccggct 240
ctgacgtggt ttcctctccc ctcaggactg gtcctgctcg ctcctcgtgg cctccctcgc 300
gggcgccttc ggytcctcct tcctctacgg ctacaacctg tcggtggtga atgcccccam 360
cccggaagga caattttgnt gggccaataa atggggtttt gaaatttntt gttggatttg 420
ntgaatgggc tt                                                     432
```

<210> 151
<211> 401
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (234)
<223> n equals a,t,g, or c

<400> 151
```
gaaagcaaag ttcaacatca ctggtgcctg cttgaatgac tcagatgacg actcaccaga 60
cttggacctt gatggaaatg agagcscatt ggccctattg atgtctaacg gcagwacgaa 120
```

```
aagggtgaag agtttatcca aatctcggcg aaccaagata gcaaagaagg tagacaaggc 180
taggctgatg gcagaacagg tgatggaaga cgartttgac ttggrttcag atgntgagct 240
gcagattgac gagagattgg ggaaagagaa ggcgaccctg ataataagac caaaatttcc 300
ccggaaattg ccccgtgcga accttgctct gaccccaacc gagttcgtga accaggagaa 360
gttgagtttg acattgagga ggatatacaa cagatgaggg t                      401
```

<210> 152
<211> 851
<212> DNA
<213> Homo sapiens

<400> 152
```
tctccggata actgtgctcc tgacatcctt ccttatggtt ttgggaactg gtctaagatg 60
catacctata tcagacttaa tccttaaaag aagattaatt catggaggac agatgttaaa 120
tggattggca ggtccaactg taatgaatgc agcaccattt ctctctacga cgtggttttc 180
tgcagatgaa agggccacag ccacagctat tgcatcaatg ctcagttatc ttgggggagc 240
atgtgcattt ttagttggac cacttgttgt tccagctccc aatgggacat cacctcttct 300
tgctgcagag agcagcaggg cgcatattaa agatcgcata gaggctgtgt tatatgcaga 360
atttggagtt gtctgcttaa tattttctgc aacactagct tatttcccac cccgacctcc 420
tcttcctccc agtgttgctg cagctagcca gcgtgagtta tcggagaagc gtttgtagat 480
tattaagcaa ttttcgattt ttgatgattg ctttagcata tgccatacca cttggtgtat 540
ttgctggctg gtctggagtt ctggacttaa ttttaacacc agcgcatgtc agccaagtag 600
atgctggctg gattggattt tggtccatag ttggaggctg tgttgttgga atagctatgg 660
caaggtttgc agattttatc aggggtatgc tgaaactaat tcttctcctc ctgttttcgg 720
gagctacact gtcatccacg tggttcaccc tgamctgttt gaacagcatc acacacctac 780
ctttaaccac agtgacattg tatgcctcct gtattctcct gggagtgttc ttgaatagca 840
gcgtgcctat a                                                       851
```

<210> 153
<211> 1678
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1663)
<223> n equals a,t,g, or c

<400> 153
```
ctcgtgccgc acagctctgg gtgtgggagg gggttgtcca gcctccagca gcatggggag 60
ggccttggtc agcatctagg tgccaacagg gcaagggcgg ggtcctggag aatgaaggct 120
ttatagggct cctcagggag gcccccagc cccaaactca ccacctggcc gtggacacct 180
gtgtcagcat gtgggacctg gttctctcca tcgccttgtc tgtggggtgc actggtgccg 240
tgcccctcat ccagtctcgg attgtgggag ctgggagtg tgagaagcat tcccaaccct 300
ggcaggtggc tgtgtacagt catggatggg cacactgtgg gggtgtcctg gtgcacccc 360
agtgggtgct cacagctgcc cattgcctaa agaagaatag ccaggtctgg ctgggtcggc 420
acaacctgtt tgagcctgaa gacacaggcc agagggtccc tgtcagccac agcttcccac 480
acccgctcta caatatgagc cttctgaagc atcaaagcct tagaccagat gaagactcca 540
gccatgacct catgctgcty cgcctgtcag agcctgccaa gatcacagat gttgtgaagg 600
tcctgggcct gccacccagg agccagcact ggggaccacc tgctacgcct caggctgggg 660
cagcatcgaa ccagaggagt tcttgcgccc caggagtctt cagtgtgtga gcctccatct 720
```

```
cctgtccaat gacatgtgtg ctagagctta ctctgagaag gtgacagagt tcatgttgtg 780
tgctgggctc tggacaggtg gtaaagacac ttgtgggggt gattctgggg gtccacttgt 840
ctgtaatggt gtgcttcaag gtatcacatc atggggccct gagccatgtg ccctgcctga 900
aaagcctgct gtgtacacca aggtggtgca ttaccggaag tggatcaagg acaccatcgc 960
agccaacccc tgagtgcccc tgtcccaccc ctacctctag taaatttaag tccacctcac 1020
gttctggcat cacttggcct ttctggatgc tggacacctg aagcttggaa ctcacctggc 1080
cgaagctcga gcctcctgag tcctactgac ctgtgctttc tggtgtggag tccagggctg 1140
ctaggaaaag gaatgggcag acacaggtgt atgccaatgt ttctgaaatg ggtataattt 1200
cgtcctctcc ttcggaacac tggctgtctc tgaagacttc tcgctcagtt tcagtgagga 1260
cacacacaaa gacgtgggtg accatgttgt ttgtggggtg cagagatggg aggggtgggg 1320
cccaccctgg aagagtggac agtgacacaa ggtggacact ctctacagat cactgaggat 1380
aagctggagc cacaatgcat gaggcacaca cacagcaagg atgacgctgt aaacatagcc 1440
cacgctgtcc tgggggcact gggaagccta gataaggccg tgagcagaaa gaaggggagg 1500
atcctcctat gttgttgaag gagggactag ggggagaaac tgaaagctga ttaattacag 1560
gaggtttgtt caggtccccc aaaccaccgt cagatttgat gatttcctag caggacttac 1620
agaaataaag agctatcatg ctgtggttaa aaaaaaaaaa aanaaaaaga agtcgacc    1678
```

```
<210> 154
<211> 1158
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1148)
<223> n equals a,t,g, or c

<400> 154
ctttatggtg aaagccttac ggagatgtct gtgagtagca tatcttctgc aggctcttct 60
gtggcctctg ctgtcccctc agcacgaccc cgccaccaga agtccatgtc cacttctggt 120
catcctatta aagtcacact gccaaccatt aaagacggct ctgaagctta ccggcctggt 180
acaacccaga gagtgcctgc tgcttcccca tctgctcaca gtattagtac tgcgactcca 240
gaccggaccc gtttoccccg agggagctca agccgaagca ctttccatgg tgaacagctc 300
cgggagcgac gcagcgttgc ttataatggg ccacctgctt caccatccca tgaaacgggt 360
gcatttgcaa tgccagaagg ggaacgtcaa ctggtataat aagcaaaatc acatccaaat 420
ttgttcgcag ggatccaagt gaaggcganc agntggcaga accgacacct caagaagtac 480
```

```
atcaggggaa ccaaaagaaa gagacaagga agagggtaaa gattctaagc cgcgttcttt 540
gcggttcaca tggagtatga agaccactag ttcaatggac cctaatgaca tgatgagaga 600
aatccgaaaa gtgttagatg caaataactg tgattatgag caaaaagaga gattttttgct 660
tttctgtgtc catggagacg ctagacagga tagcctcgtg cagtgggaga tggaagtctg 720
caagttgcca cgactgtcac ttaatggggt tcgcttcaag cgaatatctg ggacatctat 780
tgcctttaag aacattgcat caaaaatagc aaatgagctt aagctgtaaa gaagtccaaa 840
tttacaggtt caggggaagat acatacatat atgaggtaca gtttttgaat gtactggtaa 900
tgcctaatgt ggtctgcctg tgaatctccc catgtagaat ttgcccttaa tgcaataagg 960
ttatacatag ttatgaactg taaaattaaa gtcagtatga actataataa atatctgtag 1020
cttaaaaagt aggttcacat gtacaggtaa gtatattgtg tatttctgtt cattttctgt 1080
tcatagagtt gtataataaa acatgattgc ttaaaaaaaa aaaaaaaaa aaaaattnct 1140
gcggccgnca agggaatt                                                    1158
```

```
<210> 155
<211> 1969
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<400> 155
gccgcacgag cagccagaga cagcgcgacc cggagccgga gccagagcca gagccagagg 60
gaggacgcag ccgcgccggg gcgcagaacg accagctgag caccgggccc cgcgccgcgc 120
cggaggaggc cgagacgctg gcagagaccg agccaggtaa gcggcgaggc cggggaaggg 180
gggcagccca aggcggaccc ccagagctcg gggtgcaggg acgcggggct ccgcggcgac 240
aggcagaggg accttcccgc ctccgcagcc acgcgcgcgc ccccggaatg aaccctgagc 300
cccagcgtca gggcggcgca ggattctgac accgcaggat tcgcccggtt ccgtgccttc 360
cgttccctgg ggctcagaag ccggcgcgac tgcagcgcca ccgccttcca ccgtcccagg 420
agcggatccc gccccgcgcc acccgcgatc ggcgccagcc ccccggtagt tatgagaant 480
aataataact tattaacagt gacaaagcag gggttgacca gcaaagcctc cgtgtgcttc 540
ccaatcccgt gggcagtaaa gcggtatatt cggggttccc tccggtgtcc aggagagaga 600
gtccacttat tttctttcct gtcacttctg atgaggcgac cgaacgcctc gtttagcgaa 660
gagggaatta aagcccagaa tgagcctgcc tctgcgtctc cagtggcaca agccctctct 720
tgcccacctg gatcctaaca ccggatgtct tttggtctgg ccttcccggg tatcttgttc 780
cacggcattt tccctgcctc cctctcccgc ctctcctcag cacacagatc cagaatcccc 840
atataattct actagacagt agggagaaag ttcaaccacg aaacgtctct aactttgggt 900
tcttgatgat tcttagcaaa tgaatgcgta ataaacatat ttactcactc ttcactccgg 960
agagctcctt agtcatgtga aaaaagtgaa atgtatccac gatgacagtg ggctgtttgt 1020
tcactcacta aagagataag ggtggattga attctgttct cttccctgct aacatgtaac 1080
ttttgtcttc ccatccctcc ttccccactc tcctttccag aaaggcactt ggggtcttat 1140
ctgttggact ctgaaaacac ttcaggcgcc cttccaaggc ttccccaaac ccctaagcag 1200
ccgcagaagc gctcccgagc tgccttctcc cacactcagg tgatcgagtt ggagaggaag 1260
ttcagccatc agaagtacct gtcggcccct gaacgggccc acctggccaa gaacctcaag 1320
ctcacggaga cccaagtgaa gatatggttc agaacagac gctataagac taagcgaaag 1380
cagctctcct cggagctggg agacttggag aagcactcct ctttgccggc cctgaaagag 1440
aggccttctc ccgggcctcc ctggtctccg tgtataacag ctatccttac tacccatacc 1500
tgtactgcgt gggcagtgga gcccagcttt tkggtaatgc cagctcaggt gacaaccatt 1560
atgatcaaaa actgccttcc ccagggtgtc tctatgaaaa gcacaagggg ccaaggtcag 1620
```

```
ggagcaagag tgtgcacacc aamgctattg gagatttgcg tggaaakctc agattcttca 1680
ctggtgagac aatgaaacaa cagagacagt gaaagtttta atacctaagt cattcctcca 1740
gtgcatactg taggtcattt tttttggttc tggctacctg tttgaagggg agagagggaa 1800
aatcaagtgg tattttccag cactttgtat gattttggat gagttgtaca cccaaggatt 1860
ctgttatgca actccatcct cctgtgtcac tgaatatcaa ctctgaaaga gcaaacctaa 1920
caggagaaag gacaaccagg atgaggatgt caccaactga attaaactc           1969
```

<210> 156
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<400> 156
```
aattcggcac gagaagaaag aaagaatgaa agaaagaaaa gaaaagaaag aaaggaaaga 60
aaaaggaaag aaagaaagga aagaaaggaa agaaagaaag agagagaaag aaagaaggaa 120
aaggaggaag ggaattccag gtatatacca ctgcatgagt aaaggcaggg ttgtggatag 180
acatagttga tttgtagggc ccttgtttgc caagaatagt cctgctttac ccctgttgtc 240
ctgatgtaat tattaataat actgcctcat tcagtcttaa ataagtcttg grtttggact 300
agaaattata tggctaccyc tttatgtggg actaaaagta attccttgrg acmgggacnt 360
ggagtnaggt gcccaaggaa agctagaagg tagtttttntc            400
```

<210> 157
<211> 722
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (720)
<223> n equals a,t,g, or c

<400> 157
```
catggtttgg taacctcatg cactgtggga atgtcagagg accccgagat aatgcttcac 60
tgccaagtct gaaaattgtg tccacaagat ttgattggta gtattttcta tcattgtaca 120
acttaaaata tcttctaatt tccatttttt tttttttgaca tgagttgtat agaaatgtgt 180
gcttcagttt ctgttatagc aacaactctt gtcacccata gccttacaaa aattcctaat 240
```

```
tttaatattt aaattttaga attckacrag cagaattaca aaaagagtaa ctaacaagaa 300
agtgagattg tgatgggata acggaatgtc aagtctaatt gtcaggaaaa gacaaaataa 360
catgggaatg acaatcaaaa tggactaagg acttagaaga tccgaaacta tgaagctact 420
aaaagaaaca ttggggaatg ctccaggaca ttggtctggg caaagatttc ttgagcaata 480
ccttaaaagg acaggcaacc caagcaaaaa tggrcagwtg ggwtcmcwtc magctaaaaa 540
acttctacac agcgaaggaa acaaagtgaa cagaataaca tgggaatgtt ttctgtaatt 600
tagtagtaac tggcaatagt ttacaaacac attttgtgta tactgctgtc attgcactga 660
ttaccttctg ttgtagtgac tttgttctat tagtccactc aattaaaata tttggttttn 720
tt                                                                  722
```

`<210> 158`
`<211> 1200`
`<212> DNA`
`<213> Homo sapiens`

`<220>`
`<221> misc feature`
`<222> (274)`
`<223> n equals a,t,g, or c`

`<400> 158`
```
taatattcct ttggattcag agacccacaa ctaccagatt gtcaatcatg accaaaagtt 60
gcttctcatc acttctacaa ccccacaatg gaaaagaac cgagtgacag tgtatgagta 120
tgatactagg gaagatcagt ggattaatat aggtaccatg ttaggccttt tgcagtttga 180
ctctggcttt atttgccttt gtgctcgtgt ttatccttcc tgccttgaac ctggtcagag 240
ttttattact gaggaagatg atgcacggag tagntctagt actgaatggg acttagatgg 300
attcagtgag ctggactctg agtcaggaag ttcaagttct ttttcagatg atgaagtctg 360
ggtgcaagta gcacctcagc gaaatgcaca ggatcagcag ggttctttgt aaatagtatt 420
ttgagacact aagatgtttc tactgctacg gratgtattt taaacacata tcgtttcttt 480
ttcttggaaa aaaagttgat taggaccaca gatttggttt agaaagggta atattttgaa 540
atactacaag gtttagacag tccatgaatc gacctgttta ataatttacc atcctgaaag 600
tccagaatta aaatatggaa gcaagaacta tataattgat taggatgctt ggtaggtttt 660
tttcattgtt caaatattca ttgcacagtg gattgttttg attagttagt atgctttttt 720
tttaattaat tcagtcttct gttaattttt aagtttggt tagtgccaca aggaatttaa 780
cttttttgatt tgtataatag aaaactgaac taggaattgt tagcggggtt ttgaaggatg 840
tgtactttcc ttcaaaataa agtggtagat tttcaaaatt ttacactagt cagttcttta 900
tattctaagt taaatgtagt ttgtaaaatt attttggttt tcttctacaa aggaaaaaat 960
tggatttata tatataaggt tactgcataa tgatttcatt ttgataatgt gcagaatggc 1020
ctcataagct cacagaaagt aaaaaaaaaa aaaaaaaaa aagaaaaaat caggattcca 1080
ctgttttaaa agaaatctca gtttttattt tggaatataa aatgtgtatt tggtatatgt 1140
gaccaatttt ctatcccaaa aaacacccat tcttagtaat gtcatgaatt aaacacccctt 1200
```

`.<210> 159`
`<211> 345`
`<212> DNA`
`<213> Homo sapiens`

`<220>`
`<221> misc feature`
`<222> (316)`
`<223> n equals a,t,g, or c`

```
<220>
<221> misc feature
<222> (321)
<223> n equals a,t,g, or c

<400> 159
ttcggcacga gagaaaagta aaaaaaagaa agaaagaaag aaacaaacaa acaaaacaac 60
tggcatacat atatctccta aatacaggaa gaagtattca taatctcact ctttagcatg 120
gtacaaagct aaccacaact aawttattgt atataargcc acgtgaagtg stgtgtgaca 180
gccttatttt gtgaataggg ctgagaaaac cagttcaaat tctcctgaga ctatttcaga 240
ggrgttaaaa tttgaactcg tttaaaaatc atgrtttatt tacttaatat taagtttagg 300
ttaacgggca gaaaangagg ngcctggggg catcacccaa atttt              345


<210> 160
<211> 476
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c


<400> 160
aattcggcac gagagacacc agagtgaagg agagaggcca tgctgtgtcc gagaagctcc 60
tactggggtg gaagggacag ctccacaaag gctgctcttg caggggctct cctgcagcaa 120
ggtgcctgct gactgtcccc agactgtctc ccgacacaga gggatgcaaa ggcagcctct 180
tcctgctcag tggaataggg aaattatatc acctttcact tcccactctc acttctgccc 240
ctgctaccct tagtctttgg cttttgctga cattttcccc tcttatcttt tctcctgacc 300
aagttctagg tntttcatag ggcagtctta ggtgagggtt ggaaccccaa tgaagttggg 360
caacagaaac ccagctnaca atggctgttc actgtgggca agctgtttcc ccttcatctt 420
ntaaaagtgg aggtgggggtt agtgtatgag tctgggtttc cattcaactg tgtgtg   476
```

```
<210> 161
<211> 520
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
```

<222> (512)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (520)
<223> n equals a,t,g, or c

<400> 161
```
aattcggcac gagctgcgcg cggctacagc acggttcgtt tttcctttag tcaggaagga  60
cgttggtgtt gaggttagca tacgtatcaa ggacagtaac taccatggct cccgaagttt 120
tgccaaaacc tcggatgcgt ggccttctgg ccaggcgtct gcgaaatcat atggctgtag 180
cattcgtgct atccctgggg gttgcagctt tgtataagtt tcgtgtggct gatcaaagaa 240
agaaggcata cgcagatttc tacagaaact acgatgtcat gaaagatttt gaggagatga 300
ggaaggctgg tatctttcag agtgtaaagt aatcttggaa tataaagaat ttcttcaggt 360
tgaattacct agaagtttgt cactgacttg tgttcctgaa ctatgacaca tgaatatgtg 420
ggctaagaaa tagttcctct tgataaataa acaattaaca aataaaaaaa aaaaaaaagg 480
gggggcccc tctaaaaggt ccaagcttac gnacgggtgn            520
```

<210> 162
<211> 339
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<400> 162
```
aattcggcac gagcgcgcct ccacgcccag ctaatttttg tatttttggt agagacgggg  60
tttcttcacg ttggctaggc tgatcttgaa ctcctgacct caagtggtnt gcctgcctca 120
tcctcccaaa gtgctgggat tacaggcgtg acacctgcac ccacccatgc tctagtacat 180
cctaaagaat gcctttagtt cctctttcct gacattactc tgcttaaatt ccccagattc 240
aagcttttg agaatcctat ctcagcattt tgggcatcag gccatgttat atataggtrc 300
acaacttcta ggccttgttt agttggacag gttnaaaag                339
```

<210> 163
<211> 357
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<400> 163
aattcggcag agcagaacat tggtatgcgg cacatgactg tagatcttct cattaataat 60
aggcaacctg gtcaggtgca cgartctagg gttcagaatc caacaggctc aaattcaagt 120
ccagctcagc cacgtggctg atgctgtctg aacctcagcg tcctcagctg ttaaacagag 180
gtaaccatcc ccatctcagc agctttggga ggaaattaaa tgagatatat tggggatcca 240
gataaccaat aaaatatcaa atcactttac cagttcaagc tcttaccact tcagtgattg 300
catgggcttt atcactgacg gatggaactc aggggttcca ggngttcgng acccagc 357

<210> 164
<211> 1079
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (831)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (993)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1058)
<223> n equals a,t,g, or c

<400> 164
ggcacgagct tggcctccag agtgctggga ttacaggtgt gagctaccgc gcccggccta 60
ttatcttgta ctttctaact gagccctcta ttttctttat tttaataata tttctcccca 120
cttgagaatc acttgttagt tcttggtagg aattcagttg ggcaatgata acttttatgg 180
gcaaaaacat tctattatag tgaacaaatg aarataacag cgtattttca atattttctt 240
attccttaaa ttccactctt ttaacactat gcttaaccac ttaatgtgat gaaatattcc 300
tanaagttaa atgactatta aagcatatat tgttgcatgt atatattaag tagccgatac 360
tctaaatara rataccactg ttacagataa atggggcctt taaaaatatg aaaaacaaac 420
ttgtgaaaat gtataaaaga tgcatctgtt gtttcaaatg gcactrtctt yttttcagta 480
ctacaaaaac agaataattt tgaagtttta gaataaatgt aatatattta ctataattct 540
aaatgtttaa atgcttttct aaaaatgcaa aactatgatg tytagttgct ttattttacc 600
tctatgtgat tatttttctt aattgttatt ttttataatc attattttc tgaaccattc 660

```
ttctggcctc agaagtagga ctgaattcta ctattgctag gtgtgagaaa gtggtggtga 720
gaaccttaga gcagtggaga tttgctacct ggtctgtgtt ttgagaagtg ccccttagaa 780
agttaaaaga atgtagaaaa gatactcagt cttaatccta tgcaaaaaaa naaaatcaag 840
taattgtttt cctatgrgga aaataaccat gagctgtatc atgctactta gcttttatgt 900
aaatatttct tatgkctcct ctattaagrg tatttactaa aactctgtaa tctccaaaat 960
attgctatca aattacacac catgttttct atnattctca tagatctgcc ttataaacat 1020
ttaaataaaa agtactattt aatgatttaa aaaaaaanaa aaaaaagaaa aaaaaaaaa 1079
```

<210> 165
<211> 1325
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1313)
<223> n equals a,t,g, or c

<400> 165
```
ttaaaacaag atacatacat agtataacac acctcacagt gttaagattt atattgtgaa 60
atgagacacc ctaccttcaa ttgttcatca gtgggtaaaa caaattctga tgtacattca 120
ggacaaatga ttagccctaa atgaaactgt aataatttca gtggaaactc aatctgtttt 180
tacctttaaa cagtgaattt tacatgaatg aatgggttct tcactttttt tttagtatga 240
gaaaattata cagtgcttaa ttttcagaga ttctttccat atgttactaa aaaatgtttt 300
gttcagccta acatactgag tttttttttaa ctttctaaat tattgaattt ccatcatgca 360
ttcatccaaa attaaggcag actgtttgga ttcttccagt ggccagatga gctaaattaa 420
atcacaaaag cagatgcttt tgtatgatct ccaaattgcc aactttaagg aaatattctc 480
ttgaaattgt ctttaaagat cttttgcagc tttgcagata cccagactga gctggaactg 540
gaatttgtct tcctattgac tctacttctt taaaagcggc tgcccattac attcctcagc 600
tgtccttgca gttaggtgta catgtgactg agtgttggcc agtgagatga agtctcctca 660
aaggaaggca gcatgtgtcc ttttttcatcc cttcatcttg ctgctgggat tgtggatata 720
acaggagccc tggcagctgt ctccagagga tcaaagccac acccaaagag taaggcagat 780
tagagaccag aaagaccttg actacttccc tacttccact gcttttttcct gcattkaagc 840
cattgtaaat ctgggtgtgt tacatgaagt gaaaattaat tctttctgcc cttcagttct 900
ttatcctgat accatttaac actgtctgaa ttaactagac tgcaataatt ctttcttttg 960
aaagctttta aaggataatg tgcaattcac attaaaattg attttccatt gtcaattagt 1020
tatactcatt ttcctgcctt gatctttcat tagatatttt gtatctgctt ggaatatatt 1080
atcttctttt taactgtgta attggtaatt actaaaactc tgtaatctcc aaaatattgc 1140
tatcaaatta cacaccatgt tttctatcat tctcatagat ctgccttata aacatttaaa 1200
taaaaagtac tatttaatga ttaaaaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaagg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggggggg ggnccaaaaa 1320
aaaaa                                                               1325
```

<210> 166
<211> 394
<212> DNA

```
<213> Homo sapiens

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<400> 166
aattcggcac gagtttgcat ccaaattgtt tgacctttgt gcagtggctc ccattatcaa 60
ctggggaacc agtacaatct ttacctagtt actactgagg ttgttctctc tccatcacaa 120
aatttcatgc tatttatctg tgagaaaatg cctgaggact ttcacacagt aattcatctt 180
atctggaacc cttaggatca gatgtagacc gagcaaatgt caagttcaca gagaacacct 240
gtgtcttcag aacattaaag ggcaccatta gagcttgttt cccttcactt tacatgcaca 300
tttttggsat aagttngggg ctkratgatg ttgtcatags naatactgct agratgrttg 360
ctgtactcat tcactnccaa aaaaggggggg gntg 394

<210> 167
<211> 517
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<400> 167
ataattgcgg ctctttctcc tattcagatt ttacccagtg atggaaaaga tcaattttct 60
tgtggaaatt cagtggctga ccaagccttc cttgattctc tctcagccag cacagctcag 120
gncagttcgt cggctgccag caacaatcac caggtacgtc tcacttcctc cttctggatg 180
tggctggctt tacggaaaac agagcgtatt tgtgnaaggc ttgtgatgca ttatagctat 240
tgccattccc caaaagcaaa aacaaagtcg ctttaggttg ttctgtggca tttctgttgg 300
gtactaacaa agaaatcacc tgttwagcct gataatgact gtttgcaaat ttattataag 360
agaaaaggca gggtattgag ggttgctttt aggaagtctn nccatgatat ggaacacaga 420
ccccagaaac ttgcaaatac cctcttaggt taaggcatgg aaagaggagg angagagagg 480
tcttgtttgt tgaggaggtc catgtcaggc cttggcc                          517

<210> 168
<211> 341
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<400> 168
cttccctcag cccttggcca acagcattct actttctgtc tctacggatt tracacttta 60
gtagcctcat gtaggaagaa tcataatact tgtytttttg tgactggctt atttcactta 120
gcataatatt ttcaatgttc atccattttg aagctccatg tgagtgggca ggaacttgtt 180
aactggaggc cttcactgag aagtgattaa ggtgatgaat acctgccagt gcagtggctt 240
cacacctgta ctccagcact ttggggaggc caaggcagga agatcatttg agccccagga 300
tttsgggacc accttkggca atatagtgag acccngtgtt t                     341

<210> 169
<211> 350
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

```
<222> (305)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c


<400> 169
ttcggcacga ggtcttgact cctacccccc tacaacacat ataaaatcag ttccagatag 60
atcacacatc taaatgtgaa atgcaaaata ataaagcttt aagaaaaaaa gtaatggaac 120
catcttcatg atcttagagt aagtagagat ttattaagta ggatattaaa ggaacactat 180
aaatttaggg aaaaaatcaa tatattgatt atattaaaat taaggaactt ttcctcatta 240
agaggccaca aagtatttgt agtatacaca tccaacaaaa gttccatatt ccngaatwtw 300
tgganggaat nccnatggta cgttaaaaaa aggccagncc cangggggg 350


<210> 170
<211> 441
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c


<400> 170
aattcggcac gagacatggt gaacctggtc tctacataaa atacaaaaac ttagatgggc 60
atggtggtgt gtgcctatag tcccactact tgtggggcta aggcaggagg ntcacttgag 120
ccccggaggt cgaggctaca gtnagccaag agtgcactac tgtactccag ccagggcaag 180
agagcgagac cctgtctcaa taaataaata aataaataaa taaataaata aataaataaa 240
```

```
taaaaaaaaa caaagttgat taagaaagga agtataggcc aggcacagtg gctcacacct 300
gtaatccttg cattttggaa ggctgaggca ggaggatcac tttaggcctg gtgtgttcaa 360
gaccagcctg gtcaacatag tgagacaytg tytytaccaa aaaaaggaag gaagggacac 420
atatcaaact gaaacaaaat t                                           441
```

```
<210> 171
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<400> 171
ttttcatgaa cctcttccct gggaaacctt atgactcaac agtcaaaggt gtccgaatag 60
taaagatggt tttcagtgat caggtctgtg cccatgcctg gccttggata gactctgaaa 120
tgagattctt tgtttgattg atggggtgat ggtttctgtt gtgtacattt gaaggaaacc 180
agtttccca cccaaaattt ctaaggagtt taatctttgg ggtrtagggg agttaaacta 240
cactgagtca aggaagtaat tgattgcata tttcctctaa aagtcagcta tggrttgata 300
ttgactaaaa caaactagca gttctcttcc accaccaagt cmgagcgtct gttcaccatt 360
ctgcatggtt aaaagraccc acttagggat gggtaatgnt ncc                  403
```

```
<210> 172
<211> 984
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<400> 172
caagatattt acttccgctc caaacaaaga tgggccagct aacgagcncg ggggaaacat 60
ccgcccggaa ggccacttga aggcacttcc gccctctctt aacatggagc cggcggaagg 120
ggtggtgtag ggccgggcga taatggcggc gtcgaggctg gagctaaacc tggtgcggct 180
gctatmccgc tgcgaggcga tggcagcgga gaaacgggac ccggacgagt ggcgcctgga 240
gaagtacgtg ggagccctag aggacatgtt gcaggccctg aaggtccacg cgagcaaacc 300
ggcctctgag gtgatcaatg aatattcctg gaaggtggat tttctgaagg ggatgctgca 360
agccgagaag ctgacctcct cctcagagaa agcactggcc aaccagttcc tggcccctgg 420
ccgtgtgcca accacagcca gagagcgagt gcccgccaca aagacggtgc atctgcagtc 480
acgggcgcgg tacaccagcg agatgcggag tgagctacta ggcacggact ctgcagagcc 540
tgaratggac gtaaggaaga gaactggagt ggcagggtcc cagccagtga gtgagaagca 600
gtcggcagct gagctagacc tcgtcctgca gcgacatcag aacctccagg aaaagctggc 660
```

```
ggaagagatg ctaggactgg cccggagcct caagaccaat accctggccg cccagagtgt 720
catcaagaag gacaaccaga ccctgtcaca ctcactgaaa atggcggacc agaacctgga 780
gaaactgaag acggagtcag agcgtctgga gcagcacacg cagaagtcag tcaactggct 840
gctctgggcc atgctcatta tcgtctgctt catcttcatt agcatgatcc tcttcattcg 900
aatcatgcct aaactcaaat aaagacccccc gcccaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaa                                        984
```

<210> 173
<211> 1194
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1192)
<223> n equals a,t,g, or c

<400> 173
cgnggcggna anntantggc cccccccctaa agggaacaaa agctggagct ccaccgcggt 60
ggcggccgct ctagaactag tggatccccc gggctgcagg caaaagggan aattcaaaat 120
ttagaaaaaa cattagaaat gttaatatgg gatatttttg acttaagaca ttcagaaaag 180
ttaatgtttt aacacgatat gtgattatag aattctattc atatatgtgt tcacatttat 240
acactttgct atactttgta tttataaata taattctgtt agataaataa gtgattcata 300
ttttgtcaaa actattttaa aatttcaata tttaaaatat ttttgaatca ctggtttttcg 360
ttaagtggca tcatagrtga gatttgattc catgtagcat ataatttttag attgttcctc 420
tctcacccct tttaaactcc ttcaagcatt gctattactg gggttgcctt tgggaaaact 480
tacttctaga tactaccata tatctgaaat agtagaggtg gatgttaata aaattcataa 540
aataatcatg tattactttt tttgatttac cactggaagg aaatacagtc atgtgcaata 600
taatgacgtt ttggtcattg agacccacat gtgtgacagt ggtcccataa ggatgttgct 660
gaaaaattcc tgttgctgcc tagtgacact gtagccatcg taacgccata gcacgacacg 720
ttactcacct gttcatggtg atgctggtgt aaacaaacct gtgctgccag tcatacaaaa 780
gtatagcaca atgacaatta tgtacagttt atcataattc ttgataataa atgactatgt 840
tacaggttta tgtattgatt ccacttttttg tcattatttt ggaatgtact cctactaatt 900
ataaaaaaga aaaggttaac tgtaaaaaag cctcaggcag gtcctttagg aggcattcca 960
gaagaagaca ttgttaccat aggagatgac agctctatgt gtgttattgc ccctgaagac 1020
cttctagtgg gacaggatat ggaggggaaa gacagtgaca ttggtgatcc tgaccctgtg 1080
taggcctagg ctaatgtgtg tgtgtcctcg tttttaacaa gaaagtttaa aaagtaaaaa 1140
aaaaraaaaa ggnctcgaga aagggcaaaa gggcncttgg gcaaatggca gnac 1194

<210> 174
<211> 701
<212> DNA
<213> Homo sapiens

<400> 174
gcttccactg atcttgccca tctgatgtta ccatgtttgt tgtaaaggaa gagactggca 60
ttctggacaa ctggcatcag agactggctg acatggagaa cccactctgt gtgtgctgag 120
grcagggcac tcaccagtgc agaggcagaa gtgggtgcct gtcctcgagg gttaacccgc 180
tttgcctccc gcccacagcc cctccacctt ctaaaagctc aagagatgat cagactgaaa 240
cacccgccca tcttgctgtt ctgcctaggc tggaagacct ggcccaggtc atggaggccc 300
ctgctccact tgccagattc gcaggagtct tctgaccaga gctgtcgcac cttgctgctg 360
ccactggcac tgctgccatt ctcatcctct tgggggcctt cattggtgcc acattctttg 420
tagccacctg ggctgtcagc catgagggaa ggaccctcgt tttagtctcg gattgtaagg 480
tttccatctc tgtaccttct cacaaagaag agtcagggcc caagcttaat gacctgtttt 540
ttaattcagg aaggtaaatc tcgttctctc gtcacacccg gaattacagg tccatttgtc 600
ctcagtggga gttgatcttt gattcctaca aagaacaata aagtccggtg aattcccata 660
aaaaaaaaaa aaaaaaaact cggggggggg ccccggtaac c 701

<210> 175
<211> 1181
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<400> 175
```
tggggananatt tccccgaacc ggcnttcccg ggtcgacccca cgcgtccgcg gacgcgtggg 60
ccaaagtgtt gtgtgtgtnt gtgtgagtgg gtgcgtggta tacatgtgta catatatgta 120
taatatatat ctacaatata tattatatat atctatatca tatttctgtg gagggttgcc 180
atggtaacca gccacagtac atatgtaatt ctttccatca ccccaacctc tcctttctgt 240
gcattcatgc aagagtttct tgtaagccat cagaagttac ttttaggatg ggggagaggg 300
gcgagaaggg gaaaaatggg aaatagtctg attttaatga aatcaaatgt atgtatcatc 360
agttggctac gttttggttc tatgctaaac tgtgaaaaat cagatgaatt gataaaagag 420
ttccctgcaa ccaattgaaa agtgttctgt gcgtctgttt tgtgtctggt gcagaatatg 480
acaatctacc aactgtccct ttgtttgaag ttggtttagc tttggaaagt tactgtaaat 540
gccttgcttg tatgatcgtc cctggtcacc cgactttgga atttgcacca tcatgtttca 600
gtgaagatgc tgtaaatagg ttcagatttt actgtctatg gatttggggt gttacagtag 660
ccttattcac cttttttaata aaaatacaca tgaaaacaag aaagaaatgg cttttcttac 720
ccagattgtg tacatagagc aatgttggtt ttttataaag tctaagcaag atgtttttgta 780
taaaatctga attttgcaat gtatttagct acagcttgtt taacggcagt gtcattcccc 840
tttgcactgt aatgaggaaa aaatggtata aaaggttgcc aaaattgctgc atatttgtgc 900
cgtaattatg taccatgaat atttatttaa aatttcgttg tccaatttgt aagtaacaca 960
gtattatgcc tgagttataa atattttttt ctttctttgt tttattttaa tagcctgtca 1020
taggtttttaa atctgcttta gtttcacatt gcagttagcc ccagaaaatg aaatccgtga 1080
agtcacattc cacatctgtt tcaaactgaa tttgttctta aaaaaataaa atatttttt 1140
cctatggaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                      1181
```

<210> 176
<211> 489
<212> DNA
<213> Homo sapiens

<400> 176
```
aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctggtga 60
cagrgggagc tctktcttaa aaaaaaaaaa aaatcatct gtaaataaa ttccgggata 120
gtcgtttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataataca gcaggtataa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttcct tccagtgtga acacagcagg tgtgagatgt 300
catcttggaa gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaaccat tcattaaccc tttgtatctt tgagtgaaaa ttttactcaa aagttgcatc 420
```

```
tggaagttcg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480
aaaaaaaaa                                                             489
```

```
<210> 177
<211> 253
<212> DNA
<213> Homo sapiens
```

```
<400> 177
aattcggcac gagcccgggw caggcacaca ggcccaggtg tgtaggccac agcagccgca 60
gtcctgaaag sctgcaacac ccagacctcc aggagagacc aggcccagga tgcctcgcct 120
gttcttgttc cacctgctag aattctgttt actactgaac caattttcca gagcagtcgc 180
ggccaaatgg aaggacgatg tkattaaatt atgcggccgc gaattagttc gsgcgcarat 240
tgccattttg ggg                                                      253
```

```
<210> 178
<211> 393
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c
```

```
<400> 178
aattcggcac gagagcttat tcattgaagg agtaagtggc tgctcactcc tttctgctga 60
aactctttcc tgtccttgta gcctagtgtg gaatgggagc agggtcacag tgaaagagct 120
gaatctcccc acccacccac actgcagcag gctgcggctg gccgacttgt taattgccga 180
gcaggaacac agcagcaagc tgcgggcacc cctnacttgc tacagttgat ggctgtgtgt 240
ctctcccagg acctagagaa aacccgsctt gtgtacgagc gcatcactat cggcacattg 300
ttcatgtcct tcatgaacgr gtaaactgct gtttccgtgg rttttcaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaag ctcgagggtg ggc                                393
```

```
<210> 179
<211> 465
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (377)
<223> n equals a,t,g, or c.
```

```
<400> 179
attataagcg acgatggttc tgttgctatg aacacagcag tcggtccctg tcattgtcca 60
cccaggagtg gccttgttaa ttccaagtgg catgtatctt ccctctgagc ttcatttctt 120
caagatgctc tgggtggtgg gatgggagac catcctgcag ccctcctcag accttatcaa 180
ttcattgaga gattgcaaag ctgaaagcac ctccggccac tcctgggaga cagacccttt 240
ggtgatgaaa taaaccagtg acttcagagc ctatggtctc aactgtgctt gaaaaacact 300
gtctctgaaa acaactttgt gattctccct gctccctgtg gacaaaagca cataattctg 360
```

```
ctgttacggg tacttgnstc atacgagctt tcatgttcag catgcaatgg aatcatgctt 420
gtccatgtga aataaatatg gctctctcgt gtccttaaaa aaaaa           465
```

```
<210> 180
<211> 532
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c
```

```
<400> 180
cttgggttca gggaaaccag agattatacc aagacgggtc attctgcgcc atggaaaaca 60
tccttggnat ttaattgctg ctgacaataa aggtaagggc tgggcttgga tacagcattc 120
cccagataga gatgctagan aaagtgcata gctatggggt gcacagctct gtttgccttc 180
atcattgtaa cccgtagaaa gaaaacttga gtaaggtcaa ggtttccatg ctttccttaa 240
agtgtggagc cttttattcc atgaaaaggt tatacaaaaa tccaggttat caagcaaata 300
aacaagcagt tcttactcag ataaacaaga tacacccct caccctacct gctcaatttc 360
tctttctcca ctcccccaaa cccacctcca ttgtagttcc tgcaggggt cccgtaagyt 420
tattttgaaa atcactaggg tgggctkggg cgcggtggst tcaggatgtw aatyccagca 480
ctttggggrg ggcccnggga aggcagttca ttttggggtc aagggtttt tg      532
```

```
<210> 181
<211> 814
<212> DNA
<213> Homo sapiens
```

```
<400> 181
aattcggcag agtaaaattc aaataattat aagcatttgg caaaaacaag agaaagaaa 60
cttgccatat tttacaagct gcaattttag aaaagcttta acttaatgat agttttatca 120
ttgttttctt gtcccaaact tatccaggggc catagaagta tgaatctaat taaaacagaa 180
atgggaatta ttgcacagaa atgggaaata actaatttta aatcagtcaa attggcttct 240
tattaaatac aataattctt atgraaatca tagtacccta ttttcagaca cagctgccag 300
tttacacatt tctcagtatc ctgaarggra aaaagtatag ccccrcttat actatgtaaa 360
attaccaata aaatatttt atgactacag attttgcatt tttgtttaca actatttaaa 420
gagttttatg ttgtatttag aatttcaacc tagaaaccac acagtactta aattctcctg 480
gggtctcctg ctttctctta accatttgct taatatatat ctacctaaag gagacttctg 540
aattgtaaat gaacttaaaa atagaatgtg gatgcaaaat atcacataag acatcatgat 600
aacatttgaa gaaaaaataa aactgtagac cctaacagtt gtgatatttg gtggkttcat 660
```

```
gtggtaatgt aattttctgk ttaattacag tactttttac aggcacagtg gkactgtctt 720
ttttgtaaga tgcyagttgt gaaatacaat taattgcata cagtaaaagt ctgtgattaa 780
aacatttata tacctcaaaa aaaaaaaaaa aaaa                            814
```

<210> 182
<211> 317
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<400> 182
```
taattcggca cgaggaacca ctgttcctta caggtaagcc agcatgatag ttagaccaaa 60
ccatcccaat agagacttgg catgcattca acaaacatcc caggtgccta gggtgtgccc 120
agcaccattc caggagctgc cagtaaagga aacaagactg ctgtgtggcc aggtgcggtg 180
gctcacatct gtaatctcag cactttggga atgccgaagt gagtggatca cctgaggtca 240
ggagttcaag accagcctgg gccaacatgg tgaaacccca ttttttactt aaaaaaaaaa 300
aacttggggg ggggncc                                              317
```

<210> 183
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<400> 183
```
tataaaagaa aaaaaaaggc tgtacaaaaa tttcttttrt acagagactg trtaaaagaa 60
aaaaaaaaag aaatacmtgt gttcttaaaa ccatttgtat attttcattt ctagaccaca 120
ctgtagctaa ttattgttat taaatgttaa gataatttaa gtatataana taagtattga 180
nccgggcatg gtggctcacc cctgtaaatc tcagcacttt gggaaggctg aaggcggggg 240
gtt                                                              243
```

<210> 184
<211> 1148
<212> DNA
<213> Homo sapiens

<400> 184
```
aattcggcag aggggccata caaaaatttt ggacttgtta ataccactta ctaaccgggc 60
```

```
ctgtaacact gggctaaaca aagtaagccc tgtttactca gcagtgtttg ggggacatga 120
agattgccta gaaatattac tccggaatgg ctacagccca gacgcccagg cgtgccttgt 180
ttttggattc agttctcctg wgtgcatggc tttccaaagg agtggagctg tragttcttt 240
ggaattgtga acattctttt gaaatatgga gcccagataa atgaacttca tttggcatac 300
tgcctgaagt acgagaagtt ttcgatattt cgctactttt tgaggaaagg ttgctcattg 360
ggaccatgga accatatata tgaatttgta aatcatgcaa ttaaagcaca agcaaaatat 420
aaggagtggt tgccacatct tctggttgct ggatttgacc cactgattct actgtgcaat 480
tcttggattg actcagtcag cattgacacc cttatcttca ctttggagtt tactaattgg 540
aagacacttg caccagctgt tgaaaggatg ctctctgctc gtgcctcaaa cgcttggatt 600
ctacagcaac atattgccac tgttccatcc ctgacccatc tttgtcgttt ggaaattcgg 660
tccagtctaa aatcagaacg tctacggtct gacagttata ttagtcagct gccacttccc 720
agaagcctac ataattattt gctctatgaa gacgttctga ggatgtatga agttccagaa 780
ctggcagcta ttcaagatgg ataaatcagt gaaactactt aacacagcta attttttct 840
ctgaaaaatc atcgagacaa aagagccaca gagtacaagt ttttatgatt ttatagtcaa 900
aagatgatta ttgattgtsa gataggttag gttttggggg gccagtagtt cagtgagaat 960
gtttatgttt acaactagcc ttcccagtaa aaaaaaaaa aaaaaaaatt gtaaacatca 1020
cttatattac tttattgcag cttcatcacc agtacattat atgttgtaat atttatttac 1080
ctgatcattt tgatcatttt ctgctttatt ttgctaataa actgtgatgt tacttctaaa 1140
aaaaaaaa                                                        1148
```

```
<210> 185
<211> 1971
<212> DNA
<213> Homo sapiens
```

```
<400> 185
gtactttaac aattcmcart actatagtay tgggaattgt taaaagtaca ttcctctgaa 60
agataagaat cactggcttc tatgcgcttc ttttctctca tcatcatgtt cttttacccc 120
agtttcctta cattttttta aattgtttca gagtttgttt tttttttagt ttagattgtg 180
aggcaattat taaatcaaaa ttaattcatc caatacccct ttactagaag ttttactaga 240
aaatgtatta cattttattt tttcttaatc cagttctgca aaaatgacct ataaatttat 300
tcatgtacaa ttttggttac ttgaattgtt aaagaaaaca ttgtttttga ctatgggagt 360
caactcaaca tggcagaacc attttttgaga tgatgataca acaggtagtg aaacagctta 420
agaattccaa aaaaaaaaaa aaaaaaaaa aaaaagcaaa actgggtttg ggctttgctt 480
taggtatcac tggattagaa tgagtttaac attagctaaa actgctttga gttgtttgga 540
tgattaagag attgccattt ttatcttgga agaactagtg gtaaaacatc caagagcact 600
aggattgtga tacagaattt gtgaggtttg gtggatccac gcccctctcc cccacttttcc 660
catgatgaaa tatcactaat aaatcctgta tatttagata ttatgctagc catgtaatca 720
gatttatttta attgggtggg gcaggtgtgt atttacttta gaaaaaatga aaaagacaag 780
atttatgaga aatatttgaa ggcagtacac tctggccaac tgttaccagt tggtatttct 840
acaagttcag aatatttaa acctgattta ctagacctgg gaattttcaa catggtctaa 900
ttatttactc aaagacatag atgtgaaaat tttaggcaac cttctaaatc tttttcacca 960
tggatgaaac tataacttaa agaataaatac ttagaagggt taattggaaa tcagagtttg 1020
aaataaaact tggaccactt tgtatacact cttctcactt gacattttag ctatataata 1080
tgtactttga gtataacatc aagctttaac aaatatttaa agacaaaaaa atcacgtcag 1140
taaaatacta aaaggctcat ttttatattt gttttagatg ttttaaatag ttgcaatgga 1200
ttaaaaatga tgatttaaaa tgttgcttgt aatacagttt tgcctgctaa attctccaca 1260
ttttgtaacc tgttttattt ctttggggtgt aaagcgrttt tgcttagtat tgtgatattg 1320
tatatgtttt gtcccagttg tatagtaatg tttcagtcca tcatccagct ttggctgctg 1380
aaatcataca gctgtgaaga cttgcctttg tttctgttag actgcttttc agttctgtat 1440
tgagtatctt aagtactgta gaaagatgt cacttcttcc tttaaggctg ttttgtaata 1500
```

```
tatataagga ctggaattgt gttttttaaag aaaagcattc aagtatgaca atatactatc 1560
tgtgttttca ccattcaaag tgctgtttag tagttgaaac ttaaactatt taatgtcatt 1620
taataaagtg accaaaatgt gttgtgctct ttattgtatt ttcacagctt tgaaaatctg 1680
tgcacatact gtttcataga aaatgtatag cttttgttgt sctatataat ggtggttctt 1740
ttgcacattt agttatttaa tattgagagg tcacgagttt ggttattgaa tctgttatat 1800
actaaaattct gtaaagggag atctctcatc tcaaaaagaa tttacatacc aggaagtcca 1860
tgtgtgtttg tgttagtttt ggatgtcttt gtgtaatcca gccccatttc ctgtttccca 1920
acagctgtaa cactcatttt aagtcaagca gggctaccaa cccacacttg a         1971
```

```
<210> 186
<211> 366
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<400> 186
aataacaatg taattatttt yggcakascc ttgcctgact tctgaggacc tcactaagtc 60
tagttctagc ctttgtagaa tggtcaactt ctttcatcaa ggctttggtt tcattactgg 120
tgtctgaatt agttccactc ctagcttgac ccagattttta gtttttatta tggattttttt 180
cttcaaactt gtttatttaa tattaagttt tcattttttgg cagcatatgg atgatttttat 240
ttttaataat catatctctt agtaaactaa tggktaaata atattaaagt ataagaggct 300
aaaattgggc caggtgtggt ggctcacgcc tgtaaatccc cgcactttng ggnggctgag 360
gcaggn                                                           366
```

```
<210> 187
<211> 350
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<400> 187
aattcggcac gagaaagagt tgccaaaaat aaaaaatatt attgtaaggt aaaaaatttc 60
ataaatgggc ctaatagtgg gatggatata actgaaaact aagatggtga tgaggaagac 120
```

```
agtcaagaat aaatatacca aagtagcaaa gaaatacctg tgcaagtaga atagcttgct 180
tcaaacagat gagatttgtc ctcccaacat caaaacatat cacaaaacta cagtaattaa 240
gtccctttga ggccagcact gactgggrta agcaaatagr taaatgggat gtaacaggcc 300
ttatttcaac taataggttg ttcaccactc ctagttggtt ncctgtttcc          350
```

<210> 188
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<400> 188
```
aattcggcac gagtgtaaac acctttnata caaatgccat catcccattt ttactgatta 60
gaaaaacttt gctattaata ggtgcaaagt ccatttcagg tataattggt aaggaactga 120
gtgcactcat gggaagaaac cttgttttgt tttttgttcg cttttcttct tatcccecttt 180
tctcagtttt atggctggag acatgattta ttgcagccat ccatcttggg ggctcatcca 240
tcacacccgg gttgctagga gattgtggca gcagctgttt gctctgaatc agacagaaaa 300
gttgtcaatc atcaaaggca ggtgaatagc attagaaaca cgstattgtc agacggaata 360
attaatcaaa gagag                                                375
```

<210> 189
<211> 365
<212> DNA
<213> Homo sapiens

<400> 189
```
tcagacaaaa attctgtgga cagctgcgag gaattcactt ttcctctgaa actcatagcc 60
ctctcctgaa tacatatggt gtgcactaac acttgccatt atctgaaact catagccta 120
tcctgaatgc atatgctgta ggttaccact tgccattgga ggtcttggag gccatatcct 180
gtaggagcag ggtagccatg ggacttaact actattatcc cccaaaaatg ttgtgtttgt 240
gaattcacct gactgaggaa tccctaawta ttcatcagat atttcaaaag grtccatgtt 300
ccmaagragg rggtttagta ttgatttttg gttgggtttg ttttatttga ggcagtgggg 360
gatga                                                           365
```

<210> 190
<211> 817
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (778)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (791)

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (801)
<223> n equals a,t,g, or c

<400> 190
ggcacgaggt taattttgaa acttatgctt aagatttaac cagggcagag gcatatttca 60
gcataaataa tgttgccatt ataaactctt atccttccta tctcaacagg aaatgagcaa 120
ttattgcttc atgcttcaat gcactgtttt aaaatactgt ttaatttgtt aaaggtgtga 180
actgtttaat ttatctcaca cgtttttttta aacaaatact gattggacat gcgctgcacg 240
ccaggctttg ggcttggtac ctcagggttc tcacagggga ggctggaagt ggaaacaagc 300
acatgtgtaa ctgttgtgta gacagtctaa ttggtagaaa atcagcgaac aaagaagcag 360
acaaattaga aaatgaacgt aaggtgatgt gctaaaaaga gggtagccat tatgtcagtg 420
tccttcagag aaggtagcac tccctgagac cggaatggca gaaagaagtc catcctgcct 480
agcccagctt ggacttgtgg agaagcaggc tgataaaaga accaaatatt gtacattttg 540
aagaagttgc ccgctgactt gagagagagg tgttgcgttt caggtgctga atgtccttat 600
aaaaagttga atatttcgag catctctatc aatacatttg aatgctgaga gcttttcctt 660
ccagaagctc atgtcatttt caacacacac ttctatttac ctttatgtag tttctaaaaa 720
ttgaaaacca gaattggagg ttttttttaaa aaaaaaaaaa aaaaaagccg aggkgggnaa 780
agtamaaatg ngcctkwgcc ntttcctttc cccgtcc                           817

<210> 191
<211> 590
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (569)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (577)
<223> n equals a,t,g, or c

<400> 191
aattagaaag tccaaagtcg acccaaatgg atattatggg cagaagtatg gtagagcaat 60
ccaaacaatt gggattatga atgggaaggt tgtaaacccc atattatttg cgtgtacgaa 120
ggaagaatcc tgtgacaagc acttactcca aaatgagtct acagttatac caagtggata 180
gtagaactta tctactggat ttccgtagta ttgatgatga aattacagaa gccaaatcag 240
ggactgctac tccacagaga tcgggatcag ttagcaacta tcgatcttgc caaaggagtg 300
attcagatgc tgaggctcaa ggaaaatcct cagaagtttc tcttacctca tctgtgacct 360
cacttgactc ttctcctgtt gacctaactc caagacctgg aagtcacaca atagaatttt 420
```

```
ttgagatgtg tgcaaatcta attaaaattc ttgcacaata aacagaaaac tttgcttatt 480
tcttttgcag caataagcat gcataataag tcacagccca atgcttccca ttgtaatcca 540
agttatacct aattttttaac cggggggttng ggntttngga ttgcaatttg        590
```

```
<210> 192
<211> 308
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<400> 192
ggcacgagaa ataaccagct gacagcatga cgacaggata aaatccacac ataccattac 60
taaccttaaa tgaaatgggg ctaaatgctc ccattgaaag acacggggca agctggataa 120
agaaccaaga cccactggag tatgctgtct tcaagaaacc catctcacat gcggtggcat 180
acataggctc aaaataaagg aatggagaaa aatatttcaa gcaaatggaa aacagaaaaa 240
agcaggtgtt gcactcctac tttctgacaa aacagrctwt gcggnttaaa ggtkaaaaaa 300
gnggaagg                                                         308
```

```
<210> 193
<211> 343
<212> DNA
<213> Homo sapiens

<400> 193
aattcggcac gaggcctgga gaacctatgg tgattttcct gggcctgctc attgcccacc 60
attgaaccaa tcagcacaca tgtcctctct tctgagccca taaaaaccct ggactcagcc 120
agactcacac agacatcagg actaccagct gcgggaagga gctagccatc tcaggtctcc 180
ttgaatcatc cagatgacct gcctgtggaa aggagctacc catcacaggt ctacttcctg 240
atgagaactg gacattcttg ggatgacttg cctgcagaaa ggagcgacat attttgggtc 300
tyctgagagc tgttctgttg ctcaatgaag ttccttcatg cag                  343
```

```
<210> 194
<211> 690
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 194
```

```
aattcggcac gagaggtgat atacatgata cattctcaag agttgcttga ccgaaagtna 60
caaggacccc aaccccttg tcctctctac ccacagatgg ccctgggaat caattcctca 120
ggaattgccc tcaagaactc tgcttcttgc tttgcagagt gccatggtca tgtcattctg 180
aggtcacata acacataaaa ttagtttcta tgagtgtata ccatttaaag aatttttttt 240
tcagtaaaag ggaatattac aatgttggag gagagataag ttatagggag ctggatttca 300
aaacgtggtc caagattcaa aaatcctatt gatagtggcc attttaatca ttgccatcgt 360
gtgcttgttt catccagtgt tatgcacttt ccacagttgg acatggtgtt agtatagcca 420
gacgggtttc attattattt ctctttgctt tctcaatgtt aatttattgc atggtttatt 480
cttttctctt acagctgaaa ttgctttaaa tgatggttaa aattacaaat taaattgtta 540
attttttatca atgtgattgt aattaaaaat attttgattt aaataacaaa aataatacca 600
gattttaagc cgtggaaaat gttcttgatc atttgcagtt aaggacttta aataaatcaa 660
atgttaacaa aaaaaaaaaa aaaagtcgac                                  690
```

```
<210> 195
<211> 237
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<400> 195
tggaatctgg ctagaaagca gtaataaaca gaaatctgta tatgtttgga aaaagtaaat 60
ctcaatggaa atcagaaaat attttgaact gaaatttggt gatgaaaata ctatatatgg 120
aaacttgtgg gatatattat agctaaagct gtgttagagg aaatttagag ccttacataa 180
atacatatat tataaaaggg aaaatattaa aagttaatgg anctaaggca tccatct    237
```

```
<210> 196
<211> 267
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<400> 196
cccgagagta gacacatctt agtatgtact cagctttggg caaaanatag atggcgtcac 60
ctttcttcgc atgctgagct ccatagtaga ttgaggactt gggttggaag cagtaaggta 120
attgccaaag ccccattatc aggtgggtac acatagagct tttgggagga acagatgcca 180
taagttatca gtttagtctt accttctctt tagagggaaa agaagttgga gaaagcgtct 240
gcagctaaca aaaggtactg nccttgg                                     267
```

```
<210> 197
<211> 443
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (406)
<223> n equals a,t,g, or c

<400> 197
attgccaatg ataaaatttg aactttcaag caaaaatgca aattttggaa aatgtgttat 60
ttctgccact gagaacataa cagcatacca acacttttag acttttttact tttatattgt 120
ataatgaatg catcaacatt tggatgatct gtattacagg tgaaccaaca ttttccagta 180
ttagtggtgg ggaatgaccg tgtcwgaagg cttgaccagg atggggatag ctcaaggagg 240
caggatggct cattgcttat gtcttcttca ggaacacaat gaagtaggtt gagtttccag 300
gatttggccc ctgcattggg gatggttgga ggaaaggcca aaaacctagg ttcttycags 360
ccatgggctt taaaaaacgt ggtacttttt aaggaacagg gttcanggca ggggtgtttt 420
tggggctagg gttaaggaaa atg                                      443
```

```
<210> 198
<211> 208
<212> DNA
<213> Homo sapiens

<400> 198
gaaaatgtgc cttttttcagt tgtcacagmt ggggaatgtt actggcatcc ggtgggtaaa 60
ggctagggat gctgctagac attctacggt gcacaggaca accccacaa caaagaatta 120
tctagcccaa aatgtcaaca atgctgaggt tgagaagycc taggaaacta aaacagtgtg 180
ggggtttgta atttattgga aaccatgt                                  208
```

```
<210> 199
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<400> 199
attggttttg gccatgacac tgatttcctg gaggcaaggt gctgcttcya ttcaggaatg 60
ggggtgcatg actgccctga gcagccaagg agccaattct ttaggaggct gagtgccatt 120
tcagctcaag ccttcacggg gcagggccaa aagcaacttn gaggggtggg tggagcatct 180
tccactgcag cttggcccca agaaataggw tgtagcagca gytcagcttg tgggatggtg 240
cgcaacaatt tggggggg                                            258
```

```
<210> 200
<211> 893
<212> DNA
```

<210> Homo sapiens

<220>
<221> misc feature
<222> (870)
<223> n equals a,t,g, or c

<400> 200
```
aggggtagtt tccacaatct aatccgggtg ccatcagagt agagggagta gagaatggat 60
gttgggtagg ccatcaataa ggtccattct gggcagtatc tcaactgccg ttcaacaatc 120
gcaagaggaa ggtggagcag gtttcttcat cttacagttg agaaaacaga gactcagaag 180
ggcttcttag ttcatgtttc ccttagcgcc tcagtgattt tttcatggtg gcttaggcca 240
aaagaaatat ctaaccattc aatttataaa taattaggtc cccaacgaat taaatattat 300
gtcctaccaa cttattagct gcttgaaaaa tataatacac ataaataaaa aaatatattt 360
ttcatttcta tttcattgkt aatcacaact acttactaag gagatgtatg cacctattgg 420
acactgtgca acttctcacc tggaatgaga ttggacactg ctgccctcat tttctgctcc 480
atgttggtgt ccatatagta cttgattttt tatcagatgg cctggaaaac ccagtctcac 540
aaaaatatga aattatcaga aggattatag tgcaatctta tgttgaaaga atgaactacc 600
tcactagtag ttcacgtgat gtctgacaga tgttgagttt cattgtgttt gtgtgttcaa 660
atttttaaat attctgagat actcttgtga ggtcactcta atgccctggg tgccttggcc 720
agttttagaa ataccagttg aaaatatttg ctcaggaata tgcaactagg aaggggcaga 780
atcagaattt aagctttcat attctagcct tcagtcttgt tcttcaacca tttttaggaa 840
ctttcccata aggttatgtt ttccmgcccn rggsatgggg ggtcattggg gcc          893
```

<210> 201
<211> 503
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (493)
<223> n equals a,t,g, or c

<400> 201
```
aaactcactg gctgaaggag gaaattttag aaggaagcta ctaaaagatc taatttgaaa 60
aactacaaaa gcattaacta aaaaagttta tttycctttt gtctgggcag tagtgaaaat 120
aactactcac aacattcact atgtttgcaa ggaattaaca caaataaaag atgccttttt 180
acttaaacac caagacagaa aacttgccca atactgagaa gcaacttgca ttagagaggg 240
aactgttaaa tgttttcaac ccagttcatc tggtggatgt ttttgcaggt tactctgaga 300
attttgctta tgaaaaatca ttattttttag tgtagttcac aataatgtat tgaacatact 360
tctaatcaaa ggtgctatgt ccttgtgtat ggtactaaat gtgtcctgtg taccttttgc 420
acaactgaga atcctgcagc ttgggtttaa tgagcggggt catggaataa ttatgggggn 480
atgtaaaaaa aanaaaagag ggg                                          503
```

<210> 202

```
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (412)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<400> 202
catgtgatca tttatgtgta tacagagtaa ttataaaatg tttgctgtgt acaaaactat 60
tttattagtg gattttaaat acattaaatg ggtatatata gtatatatga tctaggagta 120
tatataggga actctaacaa atttataata tttattttttt aaaagaatga ccaaacatgg 180
caaaatatta ctatgagtta gatctggaca gtggatgcaa gggtcttcat tatgttattg 240
tctgattttg tgttgaactt atttcacaat gcagaggaaa aaatagtctt ggctcatcct 300
tagatatcac tgttcataga gccagtcacc aggacgatcc cacnttttat ggtgggccag 360
gcattgggag tccagagccc atcacccaac naccaagtga cgggtgggga cnctggtgag 420
cctgnaaagg gggccatc                                              438
```

```
<210> 203
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (778)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

<222> (804)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (817)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (835)
<223> n equals a,t,g, or c

<400> 203

```
cggcgatata tactaaattc gcgcgtgact tcatgagtag tagtgaatac aatcttcctg 60
cttctaagct tgtgtctact agaatgtctt ccccctaaaa gatatatttg aatgtttccc 120
atgtttcttc tagtacttta atgcgtttca ttttcatGcy gaaatcattg atctacttct 180
agtttykgat acaaatgtg agccaggaaa cccagttttt aaatttcaaa tagctgtcca 240
ggtgtccctg cacctcttat gcatgagccc tcgctttgtg ccaatgtgga gtgcccgcct 300
gctcacacgt gcccatgtgg agtgcccgcc tgctcatgtg cccatgtgga gtgcccgcct 360
gctcacacat gycgatgcgg agtgcccrcc tgctcacaca tgcccatgtg gagtgcccgc 420
ctgctcacac gtgcccatgt ggagtgcccg cctgctcaca cacgtgtcca tgtggagtgc 480
ccacctgctc atgtgcccat gtggagtgcc cacctgctca catgtgccga tgtggagtgc 540
crcctgctca cacgtgcc catgtggagt gcccgcctgc tcacrygtgc cgatgcggag 600
tgcccgcctg ctcacacgtg ccgatgcgga gtgcccgcct gctcacacgt gccgatgcgg 660
agtgcccgcc tgctcacacg tgcccatgcg gagtgcccgc ctgctcacac gtgccgacgc 720
ggagtgcccg cctgctcaca cgtgccgacg cggagtgccc gcctgctcac acgtgccnac 780
gcggantgcc cgcctgctca cacntgccga cgcggantgc ccgcctgctc acacntgccc 840
atgtggagtg ccgcctgctc acgttgccga tgtgga 876
```

<210> 204
<211> 1504
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1468)
<223> n equals a,t,g, or c

<220>

```
<221> misc feature
<222> (1494)
<223> n equals a,t,g, or c

<400> 204

tgtnytccmt gtgcnacaac cygcygcaga ctggggcccy tctcagttaa ttgggtttca 60
caagcaataa tttctccaca acaaaaacca caacttgaag tgagttgaaa agagatcaat 120
agtggaaaca gtcgcctcag tacttttct ttctggattt catctctaga aatttgaagt 180
gtttgagaca gagtccaccc tttgtgcaag gcgagaacca atgaatggac tccttgtgtg 240
aattattgca tcttcttcca aagcaggttc atcaagactt tcacagagat tcatttttgt 300
tgagaagtaa gggttaatag gaggatagaa tttggatcca aatctagtga taaaagtgtc 360
caagcaatca aaaagtaaga tattttaggg acataccaac atcttccctt tctgctaatt 420
tcatgctcca aagatatrgc aaaaaaaaaa atcataaaaa gtgcttttgc cctacttgtg 480
ttctagtttt cccatggcag aattttgtaa ttacatccag aatatagtgt atattttgtt 540
cctcaaactt tattacattg gatggatatt gttgractgg ggcactggtg cctatattca 600
aggctctttc ctatcaacgt gtctgtccac gatttgttgt gtttaaagct tcattttgaa 660
aaatcactgt cccctgtgg gtagtgactg tattgttttg ttcatgtcta tgtgggacac 720
attgcatcac atggcaaacc aactctctgt ggatgtgaga taagtactta taaaaccagc 780
ttgaaaacat cgtcttatgt attatgtcat cctgcatcat aatgcaatta tgtgtatcat 840
aacatgctca tttaaaaaaa gagaaaccag caaattcatg tttgtccata gaagaatgta 900
ctcagaactt tgtgttgtga aacgatgaga acagaccacc tttaagatac ccacctgcca 960
cttaaaatga cttagttata attagtagta gtctagacgt tgttcttggt gtgtggggt 1020
caattctaac gtcatgttct tttgaataaa tctctcagtc atatttgaaa aaaaaataca 1080
tgggaataaa gaaaaatatc atctttggcc aaatcaagca ggcatctttt ttcttttcct 1140
tgacgtttag ctcattatac gtggtgattg gatcacgaga tctgtccgtg tgaaaataca 1200
gaaacatcct ttagtttaca aaacagttat tctaggcttg aagcctctgg aacagcaaat 1260
tgaatagatg ggctgcatct gatttgcttt atggatgtaa ttttacaaaa cactcttggg 1320
tctctgaccc cagggagtta agagtgccca gaggaggtcc tacacattaa aggataaagc 1380
cccccagtga tgctggcagc aaatgtgttg agttcttaaa tcttccattt ggktttctgk 1440
ttcaggtttt taattgcaat ggatttntt tccccccgttt tttcttaagg gccncatttt 1500
ccca                                                             1504
```

```
<210> 205
<211> 525
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<400> 205

agtcttgttc ctaatgcact tgtccacatc gtatgtcatt acaagtnctt ccccttcttt 60
aaccagaggg catagaattg gggcttagtg tgtcctaaac aagctaaaag attccacctg 120
tagaatcata aaatgagagt ctcacacagt ttcatgctac ttttttgtctc ttcagcaagg 180
aacggttgct gggattgtca gtgaccaggc atgtctggat agcttcacac atacacataa 240
tgcccggttc acctcagccc acacatgttc tagaagtagc cacttgccaa gtgtcagtgt 300
tcagtctaaa cagcaaatgg gttaaccaca tgaacagcac tggcccatgt gagaatggtg 360
tgaaggcctc ctttgtacca ttttccattt ctctaactca catgtgtagt ctcagcactg 420
cagaggacag atttgtttgt gccctctgag actggttggt tggttggttg gttagttttg 480
```

```
ttttatgaat cctaaaattt gtcttggsct gttaaaaaaa aaatt                    525
```

<210> 206
<211> 2494
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2471)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2485)
<223> n equals a,t,g, or c

<400> 206
```
caaagaaaca ttggaaacaa tttctaatga agaacaaaca cctcttctta aaaagattaa 60
cccaaccgaa tctacttcca aagcagaaga aaatgaaaaa gttgattcaa aagtgaaagc 120
tttcaagaaa ccattgagtg tatttaaagg ccccttacta cacatcagcc cagcagaaga 180
actgtacttt ggaagtacag aatccggaga gaagaaaacc ttaatagtgt tgacaaatgt 240
aactaaaaat atagtggcat ttaaggtgag aacaacagct ccagaaaaat acagagtcaa 300
gccaagcaat agcagctgtg acccgggtgc atcagtggat atagttgtgt ctccccatgg 360
gggtttaaca gtctctgccc aagaccgttt tctgataatg gctgcagaaa tggaacagtc 420
atctggcaca ggcccagcag aattaactca gttttggaaa gaagttccca gaaacaaagt 480
gatggaacat aggttaagat gccatactgt tgaaagcagt aaaccaaaca ctcttacgtt 540
aaaagacaat gctttcaata tgtcagataa aaccagtgaa gatatatgtc tacaactcag 600
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aaggcatatc cattgtgtaa attaatagtt taaatataat ttattttttc cttttgatct 1020
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gattttttggc cttaatataa tctaatccca aagtagttgt gtatgttttc tgttccttgg 2460
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<210> 207
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (864)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (865)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (868)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (878)
<223> n equals a,t,g, or c


<400> 207
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attaaaaagt gtttatattg tatatgaatt ttttgcggta agtttagctt ggcattttag 480
gttttaattg atgcttaatc tgttaaaatg atgtactgta ttttaaagta ttctaattgt 540
gcttttttgt accatcttca gtatgaaaaa tgtcagtatt tagttccttt ctcaggcaca 600
attagatttt tattgacatt gttttccccc ttaactcatg taattagtca tagcaaccaa 660
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caataaaacc atcgtggatg ctttacatag catcagcgga aactgagttt aagtccactg 780
aaagtctcta aggaagtatc ctcttgctgc taaacttggt acaagttgac taccaaaaaa 840
aaaaaaaaaa agccgaggkg ggcnngtncc aagggccntg                     880
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<210> 208
<211> 640
<212> DNA
<213> Homo sapiens

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<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<400> 208
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acaggctaca tcaaggcctg gccccagcag gtgtttccct cccagatgat gacccagcct 120
gaggtcttcc aggagatgct gtccatgctg ggagatcaga gcaacagcta caacaatgaa 180
gaattccctg atctaactat gtttcccccc ttttcagaat agaactattg gggtgaggat 240
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aataaaagtt cctctccctt cccttccctc acccctgaca tgtaccccct ttcccttctg 360
gctgttcccc tgctctgttg cctctctaag gtaacatttta tagaagaaat ggaatgaatc 420
tccaaggctt ttaggactgt ctgaaaattt gaggctgggt gaagttaaaa cacctttcct 480
tatgtctcct gacctgaaat tgtatagtgt tgatttgtgc tgagatcaag aggcaggtta 540
gawgaacctg acatccactg yttgccttgg atagtatggc ttgwttttgg aaagaaattc 600
tgaagagwgt ggaaggagag gagaaatgtc ctcatatttg                        640

<210> 209
<211> 303
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<400> 209
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tgaggaaagt gaggctcaca gaagttaatt ggcccagggt cccacaacta gtcagtgcag 180
aggtggggra acataaccag atttgttcgg catgkaactt gtgccaaatt tcctccaaag 240
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act                                                              303
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<210> 210
<211> 1168
<212> DNA
<213> Homo sapiens

<400> 210
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aaatgttttg aaaactttga atacttaaaa atggcaggtg tagtattgca ctttgctagt 180
tgctcagata cccttttta tttgtataga tattctgagt tccttttttt ttctacatgt 240
tgtacgttgt cgaaagctaa aaggaaactt atccttggat cacggaaggc agaggcattt 300
ggtgagatgg aaacaaggat gtgtaaaaat gagacgacca cctctcggat taaaaaaaaa 360
aagtgccaga gttctagggt tctaagtgat gtccaggaag gaggaggaat aatatttatg 420
gagcatatat tatggaacac agcaatcagg atgagtgaaa aattgatttg cagctgacct 480
gcaaatggaa tcatcaggaa catcccttc tcatggagtc ccttaattta caagttaact 540
gcaaacatag gagatgatag ttccaagaag gaacatttta tcgtctttgt ttttaatctc 600
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gtttcagtgg acactccttg cagatgtaaa aaactgagaa aactcacttt tggaaagtga 840
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```

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<210> 211
<211> 3133
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3069)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3085)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3114)
<223> n equals a,t,g, or c

<400> 211
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aaggccagtg cccagcttga aggttctgtc accttttgca gtggtccaaa tgagaaaaaa 120
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cagagtgggt gagagatggc atccttacct ggaaccttat gggttggttt actgcgtgaa 300
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<210> 212
<211> 680
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 212
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ttacctaaag tcaattggct ggtaagaggg agagatgcaa aattctccag ctctgaactt 420
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<210> 213
<211> 563
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<400> 213
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<210> 214
<211> 2636
<212> DNA
<213> Homo sapiens

<400> 214
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ccagaaaact ggataataag gatctatttg gaaagtcaga cccatacctg gaattccaca 180
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cttttttttt taagarttga atttcttttc ctgactttta cctttacag cgtattactt 2580
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<210> 215
<211> 1822
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1816)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1821)
<223> n equals a,t,g, or c

<400> 215
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aaaactatgc atatctatat attggccaat tatctttaat aatttacctt ttgaaattgc 120
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acatttgaat tcctttttgga taaagttatt tcttgatgtg acasagtagt gtgttttcat 1740
ttttattctt tacatgtgac caaaacaata gaaaagttaa aaataaaata tagtgtttta 1800
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<210> 216
<211> 3127
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<212> DNA
<213> Homo sapiens

<400> 216

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gcggccactg cagtcacttc gccagttagc ccttagggta ggagtcgcgc cggcagcagc 180
catgagcggc ggcgtgtacg ggggagatga agttggagcc cttgttttttg acattggatc 240
ctatactgtg agagctggtt atgctggtga ggactgcccc aaggtggatt ttcctacagc 300
tattggtatg gtggtagaaa gagatgacgg aagcacatta atggaaatag atggcgataa 360
aggcaaacaa ggcggtccca cctactacat agatactaat gctctgcgtg ttccgaggga 420
gaatatggag gccatttcac ctctaaaaaa tgggatggtt gaagactggg atagtttcca 480
agctattttg gatcatacct acaaaatgca tgtcaaatca gaagccagtc tccatcctgt 540
tctcatgtca gaggcaccgt ggaatactag agcaaagaga gagaaactga cagagttaat 600
gtttgaacac tacaacatcc ctgccttctt cctttgcaaa actgcagttt tgacagcatt 660
tgctaatggt cgttctactg ggctgatttt ggacagtgga gccactcata ccactgcaat 720
tccagtccac gatggctatg tccttcaaca aggcattgtg aaatcccctc ttgctggaga 780
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```
gctgacaggt ccatgctgct ccagatttta cttttcttg cccccagttt tttgggtcat 2880
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aggatgtcac atttggtgta ctcttaggca acaaactaag aaaaaaccct gtgcaggcag 3000
ggacctgagg agttattaac gatcgggaag atttcagggc ggatgaaact ctcctacaaa 3060
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```

<210> 217
<211> 1529
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<400> 217
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ccaggagggc ctcatctgca cctgggmccg gccgggcaag gcgttcacag acgaggagac 180
cgaggcccag acagggaag gaagttggcc caggtcaccc agcaagtcag tggtagaggg 240
catctcctcc caaccaggca actccccgag tggcacagtg gtgtgaagcc atggatatcg 300
ggcccccca accccatgcc cccagcctcc tagccataac cctccctgct gacctcacag 360
atcaacgtat taacaagact aaccatgatg gatggactgc tccagtcccc ccacctgcac 420
aaaatttggg gcccccccag actggcccgg acacgggnga tgtaatagcc cttgtggcct 480
cagccttgtc ccccacccac tgccaagtac aatgacctct tcctctgaaa catcagtgtt 540
accctcatcc ctgtccccag catgtgactg gtcactcctg gggagasact ccccgcccct 600
gccacaagag ccccaggtct gcagtgtgcc cctcagttga gtgggcaggg ccggggggtgg 660
tccagccctc gcccggcccc caccccagct gcccttgcta ttgtctgtgc ttttgaagag 720
tgttaaatta tggaagcccc tcaggttcct ccctgtcccg cagacctctt atttatacta 780
aagttccctg ttttctcagc gggtctgtcc ccttcggagg agatgatgta gaggacctgt 840
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tatcagaact gcccaggacc acgtttccca ggccctgccc agctgggact cctcggtcct 1140
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gccccgactt ccactctgga gaaccgtcca ccctggaaag aagagctcag attcctcttg 1260
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ttggggtctc gtttgcccag ggagggcttg gctccaccac tttcctcccc cagcctttgg 1440
gcagcaggtc acccctgttc aggctctgag ggtgcccct cctggtcctg tcctcaccac 1500
cccttcccca cctcctggga aaaaaaaaa                                    1529
```

<210> 218

<211> 1100
<212> DNA
<213> Homo sapiens

<400> 218
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acataggtcc tggtgagcca aactttтctc ttattgttac tttagatcat ggagtgcatc 60
ggatccтttc tataccaacg wcmggagcat cttgactctc tccacaatgg actcatctac 120
ttgttaaagg ggcagtagta ctttgtggga gccagttcac ctcctttcct aaaattcagt 180
gtgatcaccc tgttaatggc cacactagct ctgaaattaa tttccaaaat ctttgtagta 240
gttcataccc actcagagtt ataatggcaa acaaacagaa agcattagta caagcccctc 300
ccaacaccct taatttgaat ctgaacatgt taaaatttga gaataaagag acattтttca 360
tctctttgtc tggtttgtcc cttgtgctta tgggactcct aatggcattt cagtctgttg 420
ctgaggccat tatattttaa tataaatgta gaaaaaagag agaaatctta gtaaagagta 480
ttttttagta ttagcttgat tattgactct tctatttaaa tctgmttctg taaattatgc 540
tgaaagtttg ccttgagaac tctattтттt tattagagtt atatttaaag cttttcatgg 600
gaaaagttaa tgtgaatact gaggaatттt ggtccctcag tgacctgtgt tgktaattca 660
ttaatgcatt ctgagttcac agagcaaatt aggagaatca tттccaacca ttatttactg 720
cagtatgggg agtaaattta taccaattcc tctaactgta ctgtaacaca gcctgtaaag 780
ttagccatat aaatgcaagg gtatatcata tatacaaatc aggaatcagg tccgttcacc 840
gaacttcaaa ttgatgttta ctaatatttt tgtgacagag tataaagacc ctatagtggg 900
taaattagrt actattagca tattattaat ttaatgtctt tatcattgga tcttтtgcat 960
gctttaatct ggttaacata tttaaatttg ctтtтtттct ctttacctga aggctctgtg 1020
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aaaaaaaaaa aaaaaaactc                                           1100
```

<210> 219
<211> 1792
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<400> 219
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agcagcagcg tcccgtacgg ctcgcaggac tcggtgcaca gcagccctga ggacggcggc 120
ggcggcgsgg accgcmtggg cgggaccggc gggccgcgcc tggtgatcgg ctccttacca 180
gctcacctct cgccgcacat gtttggagga tttaagtgcc ctgtatgctc aaaatttgta 240
tcctcagatg aaatggattt gcatcttgta atgtgtttaa caaagccacg aataacctat 300
aatgaggatg tactgagtaa agatgctggg gaatgtgcaa tatgccttga agaattgcag 360
cagggagata ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat 420
gaatggtttg aagtaaatag atcttgccct gagcaccctt cagattaagc gtcannttcc 480
tgttttatag gttttcttgt cttgacaaga tgcttgaaaa accaagagga yatgaaaatc 540
tgtctctgga gaaacaaaga cgcaggcata ctcagccaga aatctgagtt ttgtgagact 600
```

```
tggtaataca gagatggaca atcgtactgg ggtaaaaaaa ccctgctgaa gagaggacag 660
tgaccacaga actcagtgta ccaaacatgc atacaaagga cacacaggga ttttgaaaat 720
gctgcacatc ccttaatagt catctcacata ggtaatactg ataaacattt tgtattcaga 780
cgccaaagtt aactgattta aaagttgatt tactttttat taagttctcc agagctgcac 840
aactagttat gttttgattt gttttgtttt ttaatttggg gtctctttgt tttccccaac 900
ataatgttca taatgtttct gcattcatct gttcttaaat tgaaaaacat ataatttact 960
tcttataaat tgaagtctta aatgtgaaac caagaaatgt aatcaagcag taaaaacatc 1020
tgaatgtaga ccatgatctc aagttcttcc attttctccc ccacgagtgg aaaatagact 1080
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tttattgtgc tttgcatctc caggcagttc tctcacattt gggtaaaatg tttagcaggc 1440
tgtaaactta agaaaagggt aaaataaaat tttctggaga ggaacttgga atttgaggga 1500
gattttatat acctttaaaa actgtaattt aattgggatg ccaggtttat agcaatttgc 1560
aactttaatt ttccagataa tctggaggtt agcatttgat aaatgatttt ttaaagtaga 1620
tatgaagatt ttgttaattt ataatttatt catgtgttat tactgtaatt gaaaatgtta 1680
tagacacttt taaattcagt ttgtgtagaa agaaatgtgt taaacaaaat tatgttaata 1740
aatattcccm cataataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa aa         1792
```

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<210> 220
<211> 1310
<212> DNA
<213> Homo sapiens

<400> 220
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ccccggcagc gccyagcgkc ggctgcggaa agcggaggga gtccgacgcg ggcgcgggcg 180
gggagcgtgc gtccgttcgc acaggcagcg ggaggagggg cggcgcgaac catggccggg 240
gacagcgagc agaccctgca gaaccaccag cagcccaacg gcggcgagcc cttccttata 300
ggcgtcacgg gggaacagct agcggcaagt cttccgtgtg tgctaagatc gtgcagctcc 360
tggggcagaa tgaggtggac tatcgccaga agcaggtggt catcctgagc caggatagct 420
tctaccgtgt ccttacctcg gagcagaagg ccaaagccct gaaggcccag ttcaactttg 480
accacccgga tgcctttgac aatgarstca ttctcaaaac actcaaagaa atcactgaag 540
ggaaaacagt ccagatcccc gtgtatgact ttgtctccca ttcccggaag gaggagacag 600
ttactgtcta tcccgcagac gtggtgctct ttgaagggat cctggccttc tactcccagg 660
aggtacgaga cctgttccag atgaagcttt ttgtggatac agatgcggac acccggctct 720
cacgcagagt attaagggac atcagcgaga gaggcaggga tcttgagcag attttatctc 780
agtacattac gttcgtcaag cctgcctttg aggaattctg cttgccaaca aagaagtatg 840
ctgatgtgat catccctaga ggtgcagata atctggtggc catcaacctc atcgtgcagc 900
acatccagga catcctgaat ggagggccct ccaaacggca gaccaatggc tgtctcaacg 960
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ccctgagctt aaataacaaa actgtgccaa ctactactgg tgatgcctaa ttatgaatcc 1260
aacgtgtaac cagttataaa tacatatata tataaaaaag gaaaaaaaaa            1310
```

```
<210> 221
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<210> 1369
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1347)
<223> n equals a,t,g, or c

<400> 221
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agcacagttt ggaacaacag cagagatata tgcctatcga gaagaacagg attttggaat 120
tgagatagtg aargtgaaag caattggaag acaaaggttc aaagtccttg agctaagaac 180
acagtcagat ggaatccagc aagctaaagt gcaaattctt cccgaatgtg tgttgccttc 240
aaccatgtct gcagttcaat tagaatccct caataagtgc cagatatttc cttcaaaacc 300
tgtctcaaga gaagaccaat gttcatataa atggtggcag aaataccaga agagaaagtt 360
tcattgtgca aatctaactt catggcctcg ctggctgtat tccttatatg atgctgagac 420
cttaatggac agaatcaaga aacagctacg tgaatgggat gaaaatctaa aagatgattc 480
tcttccttca aatccaatag attttttctta cagagtagct gcttgtcttc ctattgatga 540
tgtattgaga attcagctcc ttaaaattgg cagtgctatc cagcgacttc gctgtgaatt 600
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aaccaaaaat gaaatattca gtttatcctt atgtgggccg atggcagctt atgtgaatcc 720
tcatggatat gtgcatgaga cacttactgt gtataaggct tgcaacttga atctgatagg 780
ccggccttct acagaacaca gctggtttcc tgggtatgcc tggactgttg cccagtgtaa 840
gatctgtgca agccatattg gatggaagtt tacggccacc aaaaaagaca tgtcacctca 900
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aataagtcca gacaaagtaa tactttgctt gtaaacagat gtgatagaga taaagttatc 1020
taacaaattg gttatattct aagatctgct ttggaaatta ttgcctctga tacataccta 1080
agtaaacata acattaatac ctaagtaaac ataacattac ttggagggtt gcagtttcta 1140
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agaataccag aaacatctac ttgggtagct tggtgccatt atcctgtgga atctgatatg 1260
tctggtagca tgtcattgat gggacatgaa gacatctttg gaaatgatga gattatttcc 1320
tgtgttaaaa aaaaaaaaaa aaaaatngct gcggccgaca agggaattc          1369
```

<210> 222
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (585)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<220>
<221> misc feature
<222> (599)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (636)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (699)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (772)
<223> n equals a,t,g, or c

<400> 222
tgcgagaaga cgacagaagg ggagagactt gagggaggcg ctgcgactga caagcggctc 60
tgcccgggac cttctcgctt tcatctagcg ctgcactcaa tggaggggcg ggcaccgcag 120
tgcttaatgc tgtcttaact agtgtaggaa aacggctcaa cccaccgctg ccgaaatgaa 180
gtataagaat cttatggcaa gggccttata tgacaatgtc ccagagtgtg ccgaggaact 240
ggcctttcgc aagggagaca tcctgaccgt catagagcag aacacagggg gactggaagg 300
atggtggctg tgctcattac acggtcggca aggcattgtc ccaggcaacc gggtgaagct 360
tctgattggt cccatgcagg agactgcctc cagtcacgag cagcctgcct ctggactgat 420
gcagcagacc tttggccaac agaagctcta tcaagtgcca aaccccacag gcttgcttcc 480
cccgagacac ccattcttac ccaaggtgcc caccctttcc cttacccaaa aaatcaaggg 540
ggaaattttt acccaaaggt tcccccaact ttnggcccaa cgggnaaccc ccaaaggana 600
caaaggaggg gtattattca gggttgcccc acccanttaa ggttgcaagg aggaaaggca 660
ttttgggggg ggaacccagg tttggggccc ccaacgttng ggtataaaaa agggttgttt 720
ccaggaggag gattgggcaa agttgttcct attttctttg gttaggagcc tntttaacaa 780
aacccagctt gt   792

<210> 223
<211> 921
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (851)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (885)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (895)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (911)
<223> n equals a,t,g, or c

<400> 223
gccccctctg cagtacccccc gcccctcttc tcccaccaca atgagatcct aagatggcgg  60
tggctgcggc ggttggcgct gcgtactgag gtcgaaaagg cggccactgg ggccgaggca 120
gccaggaaac gtgtgggcct ctctgctgcg gtctccgagg gccgaccgct gccggcggcg 180
ggtcgtgggg gctgactgtc gctctgcctt tgacaggaga ggctgcttct tgtagaggaa 240
acagctttga agtgtggagc gggaaaggag cagtttctga gctgcaaaaa ctagtttcta 300
aacagagagt taattgttaa atccagtatg gccacaggag gaggtccctt tgaagatggc 360
atgaatgatc aggatttacc aaactggagt aatgagaatg ttgatgacag gctcaacaat 420
atggattggg gtgcccaaca gaagaaagca aatagatcat cagaaaagaa taagaaaaag 480
tttggtgtag aaagtgataa aagagtaacc aatgatattt ctccggagtc gtcaccagga 540
gttggaaggc gaagaacaaa gactccacat acgttcccac acagtagata catgagtcag 600
atgtctgtcc cagagcaggc agaattagag aaactgaaac agcggataaa cttcagtgat 660
ttagatcaga gaagcattgg aagtgattcc caaggtagag caacagctgc taacaacaaa 720
cgtcagctta gtgaaaaccg aaagcccttc aactttttgc ctatgcagat taatactaac 780
aaggagcaaa ggtgcatttt acaagtcccc caaacagagg aaacggttgg gttcagcaca 840
gtgttaaagg nttgttttgc tttctggttt ttaagtaatt gaccnctttg gccanacttt 900
tccgggtgtt ntgaaggagg t                                            921

<210> 224
<211> 1979
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1949)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1953)
<223> n equals a,t,g, or c

<400> 224
ggcgccgccc aagcgccaga cgcgagctgg gaaaagggag gcagaggagg cggaggcaga  60
ggcagaggca gagcccggtg ccgagaccaa gcgacagacc ggcggggctg ggcctcgcaa 120
agccggctcg gcgagctctc ccgacacccg agccggggag gaaaagcagc gactcctcgc 180
tcgcatcccc gggagccgca ctccagactg gcccggtagt cagggggctca ggagcagatc 240
ccgaggcagg ctttgctcag cctccgacga gggctggccc tttggaaggc gccttcaaca 300
gccggaccag acaggccacc atgaccgaga attcacgtc cgcccctgcg gccaagccca 360
agcgggccaa ggcctccaag aagtccacag accaccccaa gtattcagac atgatcgtgg 420
ctgccatcca ggccgagaag aaccgcgctg ctcctcgcg ccagtccatt cagaagtata 480
tcaagagcca ctacaaggtg ggtgagaacg ctgactcgca gatcaagttg tccatcaagc 540
```

```
gcctggtcac caccggtgtc ctcaagcaga ccaaaggggt gggggcctcg gggtccttcc 600
ggctagccaa gagcgacgaa cccaagaagt cagtggcctt caagaagacc aagaaggaaa 660
tcaagaaggt agccacgcca aagaaggcat ccaagcccaa gaaggctgcc tccaaagccc 720
caaccaagaa acccaaagcc accccggtca agaaggccaa gaagaagctg gctgccacgc 780
ccaagaaagc caaaaaaccc aagactgtca aagccaagcc ggtcaaggca tccaagccca 840
aaaaggccaa accagtgaaa cccaaagcaa agtccagtgc caagagggcc ggcaagaaga 900
agtgacaatg aagtcttttc ttgcggacac tccctcctgt ctcctatttt ctgtaaataa 960
ttttctcctt ttttctctct tgatgctcac caccacccttt tgcccccttc tgttctgact 1020
ttataagaga caggatttgg attcttcaga aattacagaa taattcattt ttccttaacc 1080
agttgtgcaa ggacagcaac aaccaatcta atgatgagaa tgtacttata ttttgttttg 1140
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tttgccatga aggtagatgt gggtggggag aagacacaag gcagtttgtt ctggctagat 1260
gagagggaac ccaggaattg tgaggttagc aggaatatct ttagggtgag tgagttttcc 1320
ttgagttggg cacccgttgt gagagtttca gaacctttgg ccagcaggag agaggtggta 1380
gggagcagcc agccggcaaa ggaaggaggt ggaaaaaaac cgccaccggg ctgacttcca 1440
cctcccagtg gtgagcagtg ggggcccaaa cccagtttcc ttctcatttt tgttagtttg 1500
cccttttcggc ctccctattt tcttagggaa ggggagtggg gtccaagtga cagctggatg 1560
ggagaagcca tagtttctcc cagtgcagct aggatgtagc cattgggggga tctttgtggc 1620
ttcagcaaat tctcttgtta aaccggagtg aaaacttcag gggaagggtg gggagtcagc 1680
caagtgcctc agtgtgccct gttgaaactt aggttttcc acgcaatcga tggattgtgt 1740
cctaggaaga ctttctttt cctctggatt tttgttcctc ctgtacaaga ggtgtctttg 1800
cttggtttgg tggggctgcg gccacttaaa acctcccgat ctcttttga gtccttttt 1860
taaacaagtg ttacttgtgc cgggaaaatt ttgctgtctt tgtaattta aaactttaaa 1920
ataaattgga aaagggaraa aaaaaaagna aanaaaaaaa aaaaaaaaaa aaaaaaaa 1979
```

<210> 225
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (532)
<223> n equals a,t,g, or c

<400> 225
```
tcgacccacg cgtccgccca cgcgtccggg aaacaggaga tcgtggatcc tccttcaaaa 60
atggaggatg gaaagcccgt ttgggcgcca caccctacag atggatttca gatgggcaat 120
attgtggata ttggccccga cagcttaaca attgaaccct tgaatcagaa aggcaagaca 180
ttttttggctc tcataaacca agtgtttcct gcagaagagg acagtaaaaa agatgtggaa 240
gataactgtt cactaatgta tttaaatgaa gccacactgc tccataatat caaagttcga 300
```

```
tatagtaaag acagaattta tacatatgtc gccaacattc tgwttgcagt gaatccatac 360
tttgacatac ctaaaatata tcttcagagc ataaagtcat atcaaggaaa atctcttggg 420
acaagaccac ctccaggtct ttgcaattgc tgataagcct ttcgggacct ggaaggtgcc 480
ccaagatgag tcagtctaac catggnatcc nggagaatcc aggggccggg gnaaaccagg 540
a                                                                    541
```

<210> 226
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<400> 226
```
tcgacccacg cgtccgtgaa taagcaatct ggcctttgag ggggctgttg cggtacagac 60
aattctgtgg agcggcttcg gcggctccga ggagaagcaa tatgttaagg atacctctaa 120
gaagggcctt agtangcctt tctaataagt cttccaaagg atgtgttcga acaactgcca 180
cagcagcaag caacttratt gaagtatttg ttgatggtca rtctgtcatg gtggaaccrg 240
gaackacygt cctccaagct tgtgagaagg ttggcat                           277
```

<210> 227
<211> 2069
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2026)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2042)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2050)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2061)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2062)

<223> n equals a,t,g, or c

<400> 227
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gggtcgaccc acgcgtccgg gcgacattag ctagcgctcg ctctactctc tctaacggga 60
aagcagcgga atacaagaga ctgaactgta tctgcctcta tttccaaaag actcacgttc 120
aactttcgct cacacaaagc cgggaaaatt ttattagtcc ttttttttaa aaaagttaat 180
ataaaattat agcaaaaaaa aaaaggaacc tgaactttag taacacagct ggaacaatcc 240
gcagcggcgg cggcagcggc gggagaagag gtttaattta gttgattttc tgtggttgtt 300
ggttgttcgc tagtctcacg gtgatggaag ctgcacattt tttcgaaggg accgagaagc 360
tgctggaggt ttggttctcc cggcagcagc ccgacgcaaa ccaaggatct ggggatcttc 420
gcactatccc aagatctgag tgggacatac ttttgaagga tgtgcaatgt tcaatcataa 480
gtgtgacaaa aactgacaag caggaagctt atgtactcag tgagagtagc atgtttgtct 540
ccaagagacg tttcatttt gaagacatgtg gtaccaccct cttgctgaaa gcactggttc 600
ccctgttgaa gcttgctagg gattacagtg ggtttgactc aattcaaagc ttcttttatt 660
ctcgtaagaa tttcatgaag ccttctcacc aagggtaccc acaccggaat tccaggaag 720
aaatagagtt tcttaatgca attttcccaa atggagcagc atattgtatg ggacgtatga 780
attctgactg ttggtactta tatactctgg atttcccaga gagtcgggta atcagtcagc 840
cagatcaaac cttggaaatt ctgatgagtg agcttgaccc agcagttatg gaccagttct 900
acatgaaaga tggtgttact gcaaaggatg tcactcgtga gagtggaatt cgtgacctga 960
taccaggttc tgtcattgat gccacaatgt tcaatccttg tgggtattcg atgaatggaa 1020
tgaaatcgga tggaacttat tggactattc acatcactcc agaaccagaa ttttcttatg 1080
ttagctttga aacaaactta agtcagacct cctatgatga cctgatcagg aaagttgtag 1140
aagtcttcaa gccaggaaaa tttgtgacca ccttgtttgt taatcagagt tctaaatgtc 1200
gcacagtgct tgcttcgccc cagaagattg aaggttttaa gcgtcttgat tgccagagtg 1260
ctatgttcaa tgattacaat tttgttttta ccagttttgc taagaagcag caacaacagc 1320
agagttgatt aagaaaaatg aagaaaaaac gcaaaaagag aacacatgta gaaggtggtg 1380
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aggagttaga tatcttgcat gaatgctctc ttctgtgttt aggtattctc tgccactctt 1560
gctgtgaaat tgaagtgcat gtagaaaaaa ccttttacta tatgaaactt acaacacctt 1620
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ttccccacag acaaggcttt cgtcctcatt aggtgttggc ctcagcctaa ccctctagga 1740
ctgttctatt aaattgctgc cagaatttta catccagtta cctccacttt ctagaacata 1800
ttctttacta atgttattga aaccaatttc tacttcatac tgatgttttt ggaaacagca 1860
attaaagttt ttcttccatg agttgagtcc ttaagaaaat gattccagtt actcattttg 1920
catatttgct attttaacat tattggaccc tgcatttata gtcctttgat ttcttccctc 1980
tccctggtgt ctcccccaag accccaaata aagcaataca ctgttnaaca aaaaaaaaaa 2040
anggggggcn gccctagggg nnccaagct                                  2069
```

<210> 228
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (372)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (418)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c


<400> 228
ttccagtcag cggctgcagg gtcgggctcg cgccgtcctc tccccgcccg cgccgkattc 60
taatgtagga actggtgaga agaaggtgac tgaagcctgg atttctgagg atgaaaactc 120
acataggacg acgtcagaca gactcacggt gatggagctc ccctctcccg agtctgagga 180
agtccacgag cccagattag gggagctctt gggaaatcca gaaggtcaga gcctggggag 240
ttccccctct caggacaggg gctgcaacag gtgacagtga cccattngaa gatccagaca 300
ggagagacag ctcaagtgtg caccaagtca ggaagaaacc atattctgaa atcagacttc 360
ttctggcttc anagagagct ccttagaagg gggaagccat tccttgcgat atcctgtngg 420
gaaaccttca cgtttaattc ggacctaaat aaggcatcgg antttcgcat c         471


<210> 229
<211> 1640
<212> DNA
<213> Homo sapiens


<400> 229
tcgacccacg cgtccgatgg cgactttggt cgaactgccg gactcggtcc tgctcgagat 60
cttctcttac ctcccgggtc tgtmaccgct ggaagaggct ggtggacgac cggtggctgt 120
ggcgacatgt cgacctgacg ctctacacga tggcgaccta aagtcatgtg gcacctcctt 180
cgaaggtaca tggcatcccg gctccattcc ctgcggatgg gtggctacct gttctctggc 240
tcccaggccc cccagttgtc ccctgctctg ttgagagccc tgggccagaa gtgccccaac 300
ctgaagcgcc tctgcctgca cgtggccgac ctgagcatgg tgcccatcac cagcctgccc 360
agcaccttga ggaccctgga gctgcacagc tgcgagatct ccatggcctg gctccacaag 420
cagcaggacc ccaccgtgct gcccctgctt gaatgcatcg tgctggaccg cgtccccgcc 480
ttccgtgacg agcacctgca gggcctgacg cgcttccggg ccttgcgctc gctggtgctg 540
ggtggtacct accgtgtgac cgagacaggg ctggatgctg gcctgcagga gctcagctat 600
ctgcagaggc ttgaggtgct gggctgcacc ctgtctgccg acagcaccct gctggccatc 660
agccgccacc ttccgagatg tgcgcaagat ccggctgacc gtgagggcct ctctgcccct 720
ggcctggctg tgctggaggg aatgccggcc ctggagagtc tgtgcctgca gggtcccctc 780
gtcaccccag aaatgccctc ccccactgaa atcctctcct cctgcctcac tatgcccaag 840
ctcagagtcc ttgagctgca ggggctgggg tgggagggtc aggaggcgga gaagatcctg 900
tgtaaggggc tgccccactg tatggtcatc gtcagggctt gccccaaaga gtctatggac 960
tggtggatgt aactactcca cctgcccttg ggacccatcc cagttttcat cattgagccc 1020
cagaccctct gagcagcacc ttgaagaggg cagataatca gacttgagga aactgaaagc 1080
cccaggttga gagaacagag gcctagggac ctccagacca ttggaatcac tgtttgccag 1140
ctgtgtggcc ttggtcatat catcagcctc tgggaagcct agttcccaca tctggaaata 1200
aggatgatca tagctacctc acggttacat tgcaaagcct tactctaaaa gctcccagcc 1260
tccagaggct ctcaatgaag agtcaccttc atggtcgtct tcaggaacag gacggatgaa 1320
```

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gaaggggtgg ggttaagact caggggcacc tgagggtctg agcccccctta tgagtaccca 1380
agaaggactg tctatgcatg cacacccaca agcctataca ccatttatat acctacacgc 1440
acgcaagaga cgcggagaga taggcgatgc agactcgcga ttcaatgatc gatatgctca 1500
taaaagtgct caattatatt ttctgtattt tgtatgctgt attttccaag acgtatatta 1560
ttttactatt aaagaaaaaa atcatttttt tttcccgaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa                                             1640
```

<210> 230
<211> 1970
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1952)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1963)
<223> n equals a,t,g, or c

<400> 230
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cngncccgag cccagagcgc cggcggcccg actcccggcc gcccctttct ttctcctcgc 60
cggcccgaga gcaggaacac gataacgaag gaggcccaac ttcattcaat aaggagcctg 120
acggatttat cccagacggt agaacaaaag gaagaatatt gatggatttt aaaccagagt 180
ttttaaagag cttgagaata cggggaaatt aatttgttct cctacacaca tagatagggt 240
aaggttgttt ctgatgcagc tgagaaaaat gcagaccgtc aaaaaggagc aggcgtctct 300
tgatgccagt agcaatgtgg acaagatgat ggtccttaat tctgctttaa cggaagtgtc 360
agaagactcc acaacaggtg aggagctgct tctcagtgaa ggaagtgtgg ggaagaacaa 420
atcttctgca tgtcggagga aacgggaatt cattcctgat gaaaagaaag atgctatgta 480
ttgggaaaaa aggcggaaaa ataatgaagc tgccaaaaga tctcgtgaga agcgtcgact 540
gaatgacctg gttttagaga acaaactaat tgcactggga gaagaaaacg ccactttaaa 600
agctgagctg ctttcactaa aattaaagtt tggtttaatt agctccacag catatgctca 660
agagattcag aaactcagta attctacagc tgtgtacttt caagattacc agacttccaa 720
atccaatgtg agttcatttg tggacgagca cgaaccctcg atggtgtcaa gtagttgtat 780
ttctgtcatt aaacactctc cacaaagctc gctgtccgat gtttcagaag tgtcctcagt 840
agaacacacg caggagagct ctgtgcaggg aagctgcaga agtcctgaaa acaagttcca 900
gattatcaag caagagccga tggaattaga gagctacaca agggagccaa gagatgaccg 960
aggctcttac acagcgtcca tctatcaaaa ctatatgggg aattctttct ctgggtactc 1020
acactctccc ccactactgc aagtcaaccg atcctccagc aactccccga gaacgtcgga 1080
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```
aactgatgat ggtgtggtag gaaagtcatc tgatggagaa gacgagcaac aggtccccaa 1140
gggccccatc cattctccag ttgaactcaa gcatgtgcat gcaactgtgg ttaaagttcc 1200
agaagtgaat tcctctgsct tgscacacaa gctccggrtc aaagccaaag ccatgsagat 1260
caaagtagaa gcctttgata atgaatttga ggccacgcaa aaactttcct cacctattga 1320
catgacatct aaaagacatt tcgaactcga aaagcatagt gccccaagta tggtacattc 1380
ttctcttact cctttctcag tgcaagtgac taacattcaa gattggtctc tcaaatcgga 1440
gcactggcat caaaaagaac tgagtggcaa aactcagaat agtttcaaaa ctggagttgt 1500
tgaaatgaaa gacagtggct acaaagtttc tgacccagag aacttgtatt tgaagcaggg 1560
gatagcaaac ttatctgcag aggttgtctc actcaagaga cttatagcca cacaaccaat 1620
ctctgcttca gactctgggt aaattactac tgagtaagag ctgggcattt agaaagatgt 1680
catttgcaat agagcagtcc attttgtatt atgctgaatt ttcactggac ctgtgatgtc 1740
atttcactgt gatgtgcaca tgttgtctgt ttggtgtctt tttgtgcaca gattatgatg 1800
aagattagat tgtgttatca ctctgcctgt gtatagtcag atagtccatg cgaaggctgt 1860
atatattgaa cattattttt gttgttctat tataaagtgt gtaagttacc agtttcaata 1920
aaggattggt gacaaacaca gaactcctgc tncattgcat tgntttgatg            1970
```

<210> 231
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<400> 231
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gcgagactcc gtctcaaaac aaaacaaata aaaaaaacaa acagtatttt ttaggaattc 60
attttatttt aaattttgta aggaggagtt acaaaaagac aaatactaca tatgattcca 120
cttgtcatac ctagagtcaa attcatggag acagaaagta gaaggtggt taccagcggc 180
tgggaaggag agaatgtgga gtttaatggg tatagaattt tagttttgta aggtgaaatg 240
agttctggag attggttgca cnaacagtgt gaatatactc aacactactg aactgtanac 300
ttaaaatgat                                                       310
```

<210> 232
<211> 2833
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1399)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (2828)
<223> n equals a,t,g, or c

<400> 232

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ggcagaggcc aggggccaagg ccgaggcggc agggctgcga gaggcggcgg cacgacgacg 60
gtccctcagc ccagccacca tgagcaccaa gcagatcact tgcaggtatt ttatgcatgg 120
tgtgtgtcgg gaaggaagtc agtgcctatt ctcacatgac ttggcaaaca gcaaaccgtc 180
caccatctgc aagtactacc agaagggcta ctgtgcctat ggaactcggt gcagatatga 240
ccacacgagg ccctctgctg cagctggagg tgctgtgggc accatggccc acagtgtgcc 300
ctccccagct ttccacagtc ctcaccctcc ttccgaggtc actgcatcca ttgtgaaaac 360
taactcacat gaacccggaa agcgtgaaaa gagaacattg gttcttagag accgaaatct 420
ctctggcatg gctgaaagga agacccagcc gagcatggtg agtaatccag gcagctgcag 480
cgaccccccag cccagccccg agatgaagcc gcattcctac ctggatgcca tcaggagtgg 540
ccttgatgac gtggaggcca gcagctccta cagcaacgag cagcagctgt gcccctacgc 600
agctgctggg gagtgccggt ttggggatgc ctgtttctac ctgcacgggg aggtgtgtga 660
aatctgtagg ctgcaagtyt tgcacccatt cgacccagag cagaggaagg ctcacgaaaa 720
gatctgcatg ttgacgttcg aacacgagat ggaaaaggcc tttgccttcc aggcaagcca 780
ggacaaagtg tgcagtatct gcatggaagt gatcctggag aaggcctctg cttctgagag 840
gagatttggg attctctcca attgcaatca cacgtactgt ttgtcctgca tccggcagtg 900
gcggtgtgcc aaacagtttg aaaacccaat cattaagtct tgtccagaat gccgtgtgat 960
atcagagttt gtaattccaa gtgtgtattg ggtggaagat cagaataaaa agaacgagtt 1020
gattgaagct ttcaaacagg ggatggggaa aaaagcctgt aaatactttg agcaaggcaa 1080
ggggacctgc ccatttggaa gcaaatgtct ttatcgccat gcttaccccg atgggcggct 1140
agcagagcct gagaaacctc ggaaacagct cagttctcaa ggcactgtga ggttctttaa 1200
ttcagtgcgg ctctgggatt tcatcgagaa ccgagaaagc cggcatgtcc ccaacaatga 1260
agatgtcgac atgacagagc tcggggacct cttcatgcac ctttctggag tggaatcatc 1320
agaaccctaa agagtagatg gttgccctgc atcttgggct ccatcggccg aaactttccc 1380
aagccagggt gtgcggagnt tccctgtact gcagccaagg tgacgtgtga cttggatttg 1440
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gtgaaagata taaagtaacc taattaaatg tatggaattg ctattttat agctgatata 1560
gttacacctc aagcccctca ggggtaacaa ctaacaaaca cccaaactgt ttggattgat 1620
tgctttaaaa aacaaacctg gctcttayct ttgatctttt cttccccaga aatagtaaac 1680
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gctcagaatt actttaaaag gaggtaacag ccagccatta cacctaaatt taatttattt 2700
tattaaaata acataattga gggaccatca gataactgta ttttgtcagg tgcaataaaa 2760
acaaaattaa aacccaaatc atcaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
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aaaaaaaanaa aaa                                                      2833
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<210> 233
<211> 692
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 233
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atctccagac aagagctaca tttatggaag ttctgacaaa aatccttcaa caaggcacag 120
aatttgacac acttgcagaa acagtattgg ctgatcggtt tgagagattg gtggaactgg 180
tcacaatgat gggtgatcaa ggagaactcc ctatagcgat ggctctggcc aatgtggttc 240
cttgttctca gtgggatgaa ctagctcgag ttctggttac tctgtttgna ttctcggcat 300
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cagactctct tccgaggcaa cagcttggcc agtaaaataa tgacattctg tttcaaggta 420
tatggtgcta cctatctaca aaaactcctg grtcctttat tacgaattgt gatcacatcc 480
tctgattggc aacatgttag ctttgaagtg gatcctacca gkttagaacc atcagagagc 540
cttgaggaaa accagcggaa cctccttcag atgactgaaa agttcttcca tgccatcatc 600
agttcctcct cagaattccc ccctcaactt cgaagtgtgt gccactgttt ataccaggca 660
acttaccact ccctactgaa taaagctaca gt                                  692
```

<210> 234
<211> 1353
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1020)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1255)
<223> n equals a,t,g, or c

<400> 234
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ggcacgagcc gatagctgct tcgggattgg cgtccgggcg gctatctagg ggctgctggg 60
aagatggcgg actcggtggc tagccgatga ggaggccgcg gggggaaccc ggcccccggg 120
ccccgagacc gactgaggga gcgacctgcg cagggcccgg ggagtcatgg tctccatcac 180
ccaactccat gcttcgagtc ctgctctctg ctcagacctc ccctgctcgg ctgtctggcc 240
```

```
tgctgctgat cccctccagta cagccctgct gtttgggggcc cagcaaatgg ggggaccggc 300
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cgaagagccc tggggagctg ctgcgctggc tgggccagaa ccccagcaag gtgcgcgccc 420
accactactc ggtggcgctt cgtcgtctgg gccagctctt ggggtctcgg ccacggcccc 480
ctcctgtgga gcaggtcaca ctgcaggact tgagtcagct catcatccga aactgcccct 540
cctttgacat tcacaccatc cacgtgtgtc tgcaccttgc agtcttactt ggctttccat 600
ctgatggtcc cctggtgtgt gccctggaac aggagcgaag gctcgcctnc cctccgaagc 660
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ccccagtccc cgcctcccca caggcacccc tcatgctctg attgtgcgtc gctanctctc 1260
cctgctggaa aaggccgtgg agctggagtc ccaggataac ggggtccccg gctttcccga 1320
aggcagcaag ttgccatttt cccagctttc atc                               1353
```

<210> 235
<211> 346
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<400> 235
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ggctgtttgg gagacttatg gtcaccctga agtactgcct gcctctagtg tcgcgtccct 120
ccagtatccg atggagcgc cgtccgcagg naatgtgtct ctctgatcat ggtgcctcgt 180
gtccagctct ggggaagacc gagacgaaat cgagtcagct ggcgttggga gagggcttat 240
ttccgcttcc gcttgcccac tttcaggaat ttgattctga gagcagggct gcggttccag 300
gcagggtttg tacacatatt tgcgttggaa ggaaaaaaag aaccta              346
```

<210> 236
<211> 2271
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<400> 236
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acagtgatgg aaagactcac ctggacaaac cctactgtgc cccccagaaa gaatgcttcg 120
```

```
gggggattgt gggagccaaa agtccctacg ttgatgacat gggagcaata ggtgatgagg 180
tgatcacatt aaacatgatt aaaagcgccc ctgtgggtcc tgtggctgga gggatcatgg 240
gatgcatcat ggtcttggtc ctggcggtgt atgcctaccg ccaccagatt catcgccgga 300
gccatcagca tatgtctcct cttgctgccc aagaaatgtc agtgcgtatg tccaacctgg 360
agaatgacag agatgaaagg gacgacgaca gccacgaaga cagaggcatc atcagcaaca 420
ctcggtttat agctgcggtc atcgaacgac atgcacacag tccagaaaga aggcgccgct 480
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acagtgnaaa atcctccatg caacaatgac cccttgtcag ccggggtcga tgtggggaaa 600
ccatgatgag gacttagacc tggataccc cctcagact gctgccctac taagtcacaa 660
gttccaccac taccggtcac accaccctac acttcatcat agccaccact tacaggcggc 720
cgtcacggta cacactgtcg atgcagaatg ctaacaatct cctcacctcc acgccaagat 780
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gttttaatga tagggtatta tgatacaatg taaaaaacaa ttggttcttc agcagtacag 2160
aaagtaaact atatatgtgc tatcaggaaa ccccttcata ctgtgtataa aattgcaatc 2220
tagtgaaata aactgtatgc aatggaaaaa aaaaaaaaaa aaaaactcg a        2271
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<210> 237
<211> 3050
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3024)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3031)
<223> n equals a,t,g, or c

<400> 237
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aggrgtatct ttgatgaaag acatttagga ccctagaaac taaatcttgt caccaagact 120
ttatagtaaa gtagtagcaa aattattttt aaaagacttt cttcctttta ctacccattt 180
cctctcttgg gaaagctgat gagcaaatta tccaagactc atttctttat taggcaaagt 240
cagaatattt cccctctgaa aatctgaatt atgccctcat tcttttttcaa gaaatatctc 300
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tatcatgtgg cttaatgtgc cttaagtgaa aatttaaact tagacctgaa acctttacag 420
ttggatgtag cgttgagctt ttgcatgtyt yctgtataat aaaccacttt kgtytkgtyt 480
gtttkgtctt tnaacctaca cctttatcat tactctaaca gatttagggc ttctctttct 540
ctacagctaa gtaagggaat atgtgcaatt atgagacata caaaaaagga aagggaaagg 600
acttctaagt agcaaatctg tgccatgaag tagatgtggc gtgaagatac agagcctgag 660
gatagtaatt ttccctgagc cacgcacaca ggctttttatt tcatgccttt tctctttctg 720
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gacagagcca tggtattcct aaaatatagg tttctctttt ttcttgtatt cttagcaaat 2700
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<210> 238
<211> 2802
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1800)
<223> n equals a,t,g, or c

<400> 238
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cagggaggaa gtgcctgctg attgtcatgg aatgtttgga cggtggagaa ctctttagcc 420
gaatccagga tcgaggagac caggcattca cagaaagaga agcatccgaa atcatgaaga 480
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<210> 239
<211> 1537
<212> DNA
<213> Homo sapiens

<400> 239
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caaagtgccc agctcattak acatcagaaa actcattctg gagaaaaacc ctatgagtgt 1080
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actggagaaa aaccatatca atgtaaggac tgcaaaaaga ccttttgtcg tgtgatgcag 1200
ttcactctgc acaggagaat tcatactggt gaaaaaccct atgaatgcaa ggaatgtgga 1260
aagtccttca gcgcccattc ttctcttgtt actcataaga gaacacacag tggagaaaaa 1320
ccgtataaat gcaaggaatg tggaaaagcc ttcagtgcgc actcttccct tgttactcat 1380
aagagaacac acagtggaga gaaaccctat acatgccatg cctgtgggaa ggcctttaat 1440
```

```
acttcctcca cactttgtcm acatwataga attcatactg gtgaaaaacc ctttcagtgc 1500
agtcaatgcg ggaagtcttt agtctttagc tgcaggt                          1537
```

<210> 240
<211> 1334
<212> DNA
<213> Homo sapiens

<400> 240
```
gaccacgtgc ggcggaaggg aagtaacgtc agcctgagaa ctgagtagct gtactgtgtg 60
gcgccttatt ctaggcactt gttgggcaga atgtcacacc tgccgatgaa actcctgcgt 120
aagaagatcg agaagcggaa cctcaaattg cggcasggaa cctaaagttt caggggggcct 180
caaatctgac cctatcggaa actcaaaatg gagatgtatc tgaagaaaca atgggaagta 240
gaaaggttaa aaaatcaaaa caaaagccca tgaatgtggg cttatcagaa actcaaaatg 300
gaggcatgtc tcaagaagca gtgggaaata taaaagttac aaagtctccc cagaaatcca 360
ctgtattaag caatggagaa gcagcaatgc agtcttccaa ttcagaatca aaaaagaaaa 420
agaagaaaaa gagaaaaatg gtgaatgatg ctgagcctga tacgaaaaaa gcaaaaactg 480
aaaacaaagg gaaatctgaa gaagaaagtg ccgagactac taaagaaaca gaaataaatg 540
tggagaagcc agataatgat gaagatgaga gtgaggtgcc cagtctgccc ctgggactga 600
caggagcttt tgaggatact tcgtttgctt ctctatgtaa tcttgtcaat gaaaacactc 660
tgaaggcaat aaaagaaatg ggttttacaa acatgactga aattcagcat aaaagtatca 720
gaccacttct ggaaggcagg gatcttctag cagctgcaaa aacaggcagt ggtaaaaccc 780
tggcttttct catccctgca gttgaactca ttgttaagtt aaggttcatg cccaggaatg 840
gaacaggagt ccttattctc tcacctacta gagaactagc catgcaaacc tttggtgttc 900
ttaaggagct gatgactcac cacgtgcata cctatggctt gataatgggt ggcagtaaca 960
gatctgctga agcacagaaa cttggtaatg ggatcaacat cattgtggcc acaccaggcc 1020
gtctgctgga ccatatgcag aataccccag gatttatgta taaaaacctg cagtgtctgg 1080
ttattgatga arctgatcgt atcttggatg tggggtttga agargaatta aagcaaatta 1140
ttaaactttt gccaacacgt agacagacta tgctcttttc tgccacccaa actcgaaaar 1200
ttgaagamct ggcaaggatt tctctgaaaa aggagccatt ggtatgttgg cgttgatgat 1260
gataaagcga atgcmacagt gggatggtct kgaacagggg atatgtttgt ttggtcccctt 1320
ctgaaaaaga ggtt                                                   1334
```

<210> 241
<211> 2438
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (879)
<223> n equals a,t,g, or c

<400> 241
```
ggtgcagttc caacagtaac agcgaaaatc atcgggtgat gcaagtactc aaacagatgc 60
cctgaaactg ncaccttcca accttcaagg cttttgaaga acaaagcttt attatgcaaa 120
```

```
cccatcacac agactaaagc cacctcttgc aaaccacata cccaaaacaa agaatgccag 180
acagaagaca ctccaagtca gcccagatta ttgkggkgcc agttccgtac cagkgttkgt 240
cccatacctc ttacctttat actcaatatg ctccagtccc atttggaatt ccagktccaa 300
tgcctgkccc tatgcttatt ccatcttcaa tggatagtga agataaagtc acagagagta 360
ttgaagacat taaagaaaag cttcccacac atccatttga agctgatctc cttgaratgg 420
cagaaatgat tgcagaagat gaagagaaga agactctatc tcagggagag tcccaaactt 480
ctgaacacga actctttcta gacaccaaga tatttgaaaa araccaagga agtacataca 540
gtggtgatct tgaatcagag gcagtatcta ctccacatag ctgggaggaa gagctgaatc 600
actatgcctt aaagtcaaat gctgtgcaag aggctgattc agaattgaag cagttctcaa 660
aaggggaaac tgaacggacc tggaagcaga tttttcatca gactcctttg acccacttaa 720
taaaggacgg gaatccaggc acgttcccga acagacgacg acacagagat ggcttccccc 780
aacccagacg aagaggacgg aagaagtcta tagtggctgt ggagcccagg agtcttattc 840
aaggagcctt tcaaggctgc tcagtgtccg ggatgacant gaaatacatg tatgggtaa 900
atgcttggaa gaactgggtt cagtggaaaa atgccaagga agagcagggg gatctaaaat 960
gtggagggt tgaacaggcc tcatctagcc cacgttctga ccccttagga agtactcaag 1020
accatgcact ctctcaagaa tcctcagagc caggctgtag agtccgctct atcaagctga 1080
aggaagacat tctgtcctgc acttttgctg agttgagttt gggcttatgc cagtttatcc 1140
aagaggtgcg gagaccaaat ggtgaaaaat atgatccaga cagtatctta tacttgtgcc 1200
ttggaattca acagtacctg tttgaaaatg gtagaataga taacatttt actgagccct 1260
attccagatt tatgattgaa cttaccaaac tcttgaaaat atgggaacct acaatacttc 1320
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gcgcttactc accaatcgcc ttttaaacac cctyctttc ttcaatacca aatacttyca 1440
actaaagaat gktactgagc acttgaagct ttcctttgcc catgtgatga gacggaccag 1500
gactctgaag tacagtacca agatgacata tctgaggttc ttcccacctt tacagaagca 1560
ggagtcagaa ccagataaac tgactgttgg caagaggaaa cgaaatgaag atgatgaggt 1620
tccagtgggg gtggagatgg cagagaatac tgacaatcca ctaagatgcc cagtccgact 1680
ttatgagttt tacctgtcaa aatgttctga aagtgtgaag caaaggaatg atgtgtttta 1740
ccttcaacct gagcgctcct gtgtcccgaa tagccccatg tggtactcca cattcccgat 1800
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agaacttgcc aaagccaaat ctgaagactc tgatgttgaa ttatcagatt aaaacggaag 1920
tgaggttctt attttcatac atattggtat gcaccaaact gtgaatgcat ccagctgttg 1980
gaaaatgatg tataagtcta agtcctcttg acttgaccat aagatcatgg aaaacagatg 2040
acttgtgaac cccacagtgt ggatgtgcaa atgaaaattg aaggaaagaa tatgaactga 2100
gaaatgttct ttggcagtga tatagttctt agacatcttc agaatgacta atttctccga 2160
gtggtgcata atcttatttt gtttgggagt aacaaatcgt ggaatatttt taaggaaaac 2220
tgttgtataa aactttacca tagtaacctt agaccttaga gaggtagctt tggagtgaaa 2280
ctttggctgc aataggctac tttgcaagcc ctccgtaaaa gtcagaggag agatcagtac 2340
agagctaaga gtgacatcaa atgaggactg tgggacccag atttgaagac ccaataaaaa 2400
tactcaactt tttaaaaaaa aaaaaaaaaa aaaaaat                         2438
```

```
<210> 242
<211> 139
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 242
```

```
aagaccggag cttgtccgga agattkcaaa tactgcccgc aaagctcgcg ctacaaaacc 60
gggttggarc cagwcggttg atggaagttg aacaggtgct ggagtcggcg cgcaaagcaa 120
tagggactag ggatcgncg                                                139


<210> 243
<211> 479
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c


<400> 243
gctcgtgccg aattcggcac gaggcagttt ttgaaagttt gaaattaagt aaaaattaaa 60
agtcacaaaa gattttgcat gtcaagattc tagccttttt cttctggtgt actgagaggc 120
cagaggagcc cattctaggg actaagtatt gacagaattt ggttctgtgg caagaattac 180
ctggtgtcct agcactaagg accagtaggt cagagccctt gacttagatt tcaggacaag 240
aaacagaaag attggaatag gattgraatg gagtctcccc gtgattttaa aaaacactta 300
statggggcc asgcgcrckg tggctcaacg cctgtaatcc cagcactttg ggaggccaag 360
atgggtggat catgaggtca ggagatcgag accgtcctgg ctaacatggt gaaaccccgg 420
ctctactaaa aatataaaaa aattaacccg gccgtggtgg cngggcgcct gtagtccca 479


<210> 244
<211> 584
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (582)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (583)
<223> n equals a,t,g, or c


<400> 244
tgggatatct ccggagcatt trgataatgt gacagttgga atgcagtgat gtcgactctt 60
tgcccaccgc catctccagc tgttgccaag acagagattg ctttaagtgg caaatcacct 120
ttattagcag ctacttttgc ttactgggac aatattcttg gtcctagagt aaggcacatt 180
tgggctccaa agacagaaca ggtacttctc agtgatggag aaataacttt tcttgccaac 240
cacactctaa atggagaaat ccttcgaaat gcagagagtg gtgctataga tgtaaagttt 300
tttgtcttgt ctgaaaaggg agtgattatt gtttcattaa tctttgatgg aaactggaat 360
ggggatcgca gcacatatgg actatcaatt atacttccac agacagaact tagtttctac 420
ctcccacttc atagagtgtg tgttgataga ttaacacata taatccggaa aggaagaata 480
tggatgcata aggaaagacm agaaatgtcc agaagattat cttagaaggc acagagagaa 540
tggaagatca ggtcagagta ttattccaat gcttactgga gnng           584
```

```
<210> 245
<211> 332
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<400> 245
ggcacagcgt tcacccgaca gtgttcacag ggcccatggt acagagcacg gagcagggtc 60
ccccaggttg tgcgcttgcc agggccacat cttgagcctt cgctctgctc cttcgagagc 120
cgctgctgcc ccaccccaat ccccaaccag ccaccccctc ctgcctccct gccatctgtc 180
cctttcatcc tccctggcgt gccaagcgcc tgccatggca ccgcctgtta cctancccag 240
ctacaaatgc cagccttgaa tctgccctgg antcccttcc tctaccangt aaacagcctt 300
aactcagccc tgccactccc tgctctgaag ct                              332

<210> 246
<211> 1617
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<400> 246
cccgagatcc ctttcccaga gtgctctgcg ccgwgaagaa gcggctcccg gggactkggg 60
gcattttgtg ttggctggag ctggagtaac aagatggcgt cgtccgcgga gtgacagggg 120
tccctctggg ccggagccgg cggcagtggt ggcagcggta tcgccgccct agctcaccgc 180
gccccttttc cagcccgcga cgtcgccgcg caagnaggca gcggcggccg ccgagaaaca 240
agtggcccag cctggtaacc gccgagaagc ccttcacaaa ctgcggcctg gcaaaaagaa 300
acctgactga gcggcggtga tcaggttccc ctctgctgat tctgggcccc gaaccccggt 360
aaaggcctcc gtgttccgtt tcctgccgcc ctcctccgta gccttgccta gtgtaggagc 420
cccgaggcct ccgtcctctt cccagaggtg tcggggcttg gccagcctcc atcttcgtct 480
ctcaggatgg cgagtagcag cggctccaag gctgaattca ttgtcggagg gaaatataaa 540
ctggtacgga agatcgggtc tggctccttc ggggacatct atttggcgat caacatcacc 600
aacggcgagg aagtggcagt gaagctagaa tctcagaagg ccaggcatcc ccagttgctg 660
tacgagagca agctctataa gattcttcaa ggtggggttg gcatcccca catacggtgg 720
```

```
tatggtcagg aaaaagacta caatgtacta gtcatggatc ttctgggacc tagcctcgaa 780
gacctcttca atttctgttc aagaaggttc acaatgaaaa ctgtacttat gttagctgac 840
cagatgatca gtagaattga atatgtgcat acaaagaatt ttatacacag agacattaaa 900
ccagataact tcctaatggg tattgggcgt cactgtaata agttattcct tattgatttt 960
ggtttggcca aaaagtacag agacaacagg acaaggcaac acataccata cagagaagat 1020
aaaaacctca ctggcactgc ccgatatgct agcatcaatg cacatcttgg tattgagcag 1080
agtcgccgag atgacatgga atcattagga tatgttttga tgtattttaa tagaaccagc 1140
ctgccatggc aagggctaaa ggctgcaaca aagaaacaaa aatatgaaaa gattagtgaa 1200
aagaagatgt ccacgcctgt tgaagtttta tgtaaggggt ttcctgcaga atttgcgatg 1260
tacttaaact attgtcgtgg gctacgcttt gaggaagccc cagattacat gtatctgagg 1320
cagctattcc gcattctttt caggaccctg aaccatcaat atgactacac atttgattgg 1380
gacaatgtta aagcagaaag cagcacagca ggcagcctct tccagtgggc agggtcagca 1440
ggcccaaacc cccacaggca agcaaactga cmaaaccaag agtaacatga aaggttagta 1500
rccaagaacc aagtgacgtt acagggaaaa aattgaatmc aaaattgggt aattcatttc 1560
taacagkgtt agatcaagga ggkggtttta aaatacataa aaatttggct ctgcgtt    1617
```

<210> 247
<211> 1449
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1447)
<223> n equals a,t,g, or c

<400> 247
```
cgcggggctg gtagcggccg gagccgtgcg akttctctac cctgcttcgc gagcgggcga 60
gagaacgcga gtcccaggat ccccggcacc casttctctt ccactgcatt cccccggcgc 120
gtgtgggacc gaggtggaca tggatccgca gaggtccccc ctattggaag taaaggggaa 180
catagaactg aagagacctc tgattaaggc cccttcccag ctgcctctct caggaagcag 240
actcaagagg aggcctgacc agatggaaga tggcctggag cctgagaaga aacggacaag 300
aggcctgggt gcaasgacca aaattaccac atcccaccca agagttccat ccctcactac 360
agtgccacag acacaaggcc agaccacagc tcaaaaagtt ccaagaaga caggaccccg 420
gtgttccaca gctattgcca cagggttgaa gaaccagaag ccagttcctg ctgttcctgt 480
ccagaagtct ggcacatcag gtgttcctcc catggcagga gggaagaaac ccagcaaacg 540
tccagcctgg gacttaaagg gtcagttatg tgacctaaat gcagaactaa aacggtgccg 600
tgagaggact caaacgttgg accaagagaa ccagcagctt caggaccagc tcagagatgc 660
ccagcagcag gtcaaggccc tggggacaga gcgcacaaca ctggaggggc atttagccaa 720
ggtacaggcc caggctgagc agggccaaca ggagctgaag aacttgcgtg cttgtktcct 780
ggagctggaa gagcggctga gcacgcagga gggcttggtg caagagcttc agaaaaaaca 840
ggtggaattg caggaagaac ggaggggact gatgtcccaa ctagaggaga aggagaggag 900
gctgcagaca tcagaagcag ccctgtcaag cagccaagca gaggtggcat ctctgcggca 960
ggagactgtg gcccaggcag ccttactgac tgagcgggaa gaacgtcttc atgggctaga 1020
aatggagcgc cggcgactgc acaaccagct gcaggaactc aagggcaaca tccgtgtatt 1080
ctgccgggtc cgccctgtcc tgccggggga gcccactcca ccccctggcc tcctcctgtt 1140
tccctctggc cctggtgggc cctctgatcc tccaacccgc cttagcctct cccggtctga 1200
cgagcggcgt gggaccctga gtgggcacc agctcccca actcgccatg attttccctt 1260
tgaccgggta ttcccaccag gaagtggaca ggatgaagtg tttgaagaga ttgccatgct 1320
tgtccagtca gccctggatg gctatccakt atgcatcttt gcctatggcc agacargcag 1380
tggcaagacc ttcacaatgg agggtgggct gggggagacc ccarttggaa gggctgatcc 1440
```

```
ctcgggncc                                                        1449
```

```
<210> 248
<211> 1484
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1478)
<223> n equals a,t,g, or c

<400> 248
ccacgcgtcc gcggacgctg gacggacgcg tgggtcnggt taggaggagc taggctgcca 60
tcgggccggt gcagatacgg ggttgctctt ttgctcataa gaggggcttc gctggcagtc 120
tgaacggcaa gcttgagcaa cgcggtaaaa atattgcttc ggtgggtgac gcggtacagc 180
tgcccaaggg cgttcgtaac gggaatgccg aagcgtggga aaaagggagc ggtggcggaa 240
gacggggatg agctcaggac agagccagag gccaagaaga gtaagacggc cgcaaagaaa 300
aatgacaaag aggcagcagg agagggccca gccctgtatg aggacccccc agatcagaaa 360
acctcaccca gtggcaaacc tgccacactc aagatctgct cttggaatgt ggatgggctt 420
cgagcctgga ttaagaagaa aggattagat tgggtaaagg aagaagcccc agatatactg 480
tgccttcaag agaccaaatg ttcagagaac aaactaccag ctgaacttca ggagctgcct 540
ggactctctc atcaatactg gtcagctcct tcggacaagg aagggtacag tggcgtgggc 600
ctgctttccc gccagtgccc actcaaagtt tcttacggca taggcgakga ggagcatgat 660
caggaaggcc gggtgattgt ggctgaattt gactcgtttg tgctggtaac agcatatgta 720
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cgcaagttcc tgaagggcct ggcttcccga aagccccttg tgctgtgtgg agacctcaat 840
gtggcacatg aagaaattga ccttcgcaac cccaagggga acaaaaagaa tgctggcttc 900
acgccacaag agcgccaagg cttcggggaa ttactgcagg ctgtgccact ggctgacagc 960
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cctgcattgt gtgacagcaa gatccgttcc aaggccctcg gcagtgatca ctgtcctatc 1140
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cctcaactac cattccttct ttaaacactc ttcagagaaa tctgcattct atttctcatg 1260
tataaaacta ggaatcctcc aaccaggctc ctgtgataga gttcttttaa gcccaagatt 1320
ttttatttga gggttttttg ttttttaaaa aaaaattgaa caaagactac taatgacttt 1380
gtttgaatta tccacatgaa aataaagagc catagtttca aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanngg gggg          1484
```

```
<210> 249
<211> 2422
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2408)
<223> n equals a,t,g, or c

<400> 249
```
ggtcttgaat aaactactat accaggaggc acattttctc gctcaagcat cttacattga 60
ccttctttaa aacaaaaata cgtacaaggc ccacgcgtcc gcggacgcgt ggggagtctt 120
tctaatcttc cttttctaca gacccatctg acctctccct tcctccccag gctgctcctt 180
gccaggccga gctaggtccc aattcttcct cagcctctgc tcctccaccc tataatcttt 240
ttatcacctc ccctcctcac acctgstccg gcttacagtt tcrttccgtg actagccctc 300
cccsacctgc ccagcaattt actcttaaaa aggtggctgg agctaaaggc atagtcaagg 360
ttaatgctcc tttttcttta tcccaaatca gatagcgttt aggctctttt tcatcaaata 420
taaaaaycca gcccagttca tgrctygttt ggcagcaacc ctgagacact ttacagccct 480
agaccctaaa aggtcaaaag gccrtcttat tctcaawata cattttatta cccaatctgc 540
tcccgacatt aaataaaact ccaaaaatta rawtcyggcc ctcaaacccc acaacaggay 600
ttaattaacc tcrccttcaa ggtgtacaat aatagaaaaa agttgcaatt ccttgcctcc 660
actgtgagac aaaccccagc cacatctcca gcacacaaga acttccaaac gcctgaacyg 720
cagcrgccag gcgttcctcc agaacctcct cccacaggag cttgctacac gtgccggaaa 780
tctggccact gggccaagga atgcccgcag ccygggattc ctcctaagcc rcgtcccatc 840
tgtgtgggac cccactgaaa atckgactgt tcaactcacc tggcagccac tcccagagcc 900
cctggaacwc tggccmaagg ctctctgact gactccttcc cagatcttct tggcttagca 960
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acccackcca cattaccttc ttttcaaggg cctgtttccc ttgcctccat aactgttgtg 1140
ggtattgacg gccaggcttc taaacctctt aaaactcccc aactctggtg ccaacttaga 1200
caatactctt ttaagcactc cttttagtt atccccatct gcccagttcc cttattaggc 1260
tgagacactt taactaaatt atctgcttcc ctgactattc ctggactaca gctgtatctc 1320
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cttaacccac aagtataaga tatctctact ccctccttga cgaccgatca tgcaccccctt 1440
accatctcat taaaacctaa tcaccttac cgcactcaat gccagtatcc cattccgcag 1500
cacgctttaa aaagattaaa gcctgttatc attcgcctgt tacagcatgg cctttttaaac 1560
cctataaact ctccttacaa ttcccccatt tttcctgtcc taaaacgaga caagccttac 1620
aagttagttc aggatctgcg ccttatcaac caaattgttt tgcctatcca ccccgtggtg 1680
ccaaacccat atactctcct atcctcaata cctccctcta ctacccatta ttctgttctg 1740
gatctcagac atgctttctt tactattgct ttgcacccctt catcccagcc tctctttgcc 1800
ttcacttaga ctgaccctga cacccattag gctcaacaaa ttacctgggc tgcactgcca 1860
caaggcttca cagacagccc ccattacttc agtgaagccc aaatttcatc ctcatctgtt 1920
agtcatactc ccgttcaccg ttctcaacta ctcatacatg ccctgctctt ctttacactg 1980
ccggtttaca ctgtttctcc aagacatcac agctgatatc tcctggtgct atccccaaac 2040
tgccactcta aactcttgaa gtaaataaat aatctttgct ggcaggactc tgctgaatct 2100
ccttaggcac tctctaatca gatrtcctag gtcctcccaa ttcttagacc ttttatacct 2160
gtttttctcc ttctgttatt ccatttagtt tctcaattca tccaaaaccg tatccaggcc 2220
```

```
atcaccaatc attctatayg acaaatgttt cttctwacat ccccacaata tcacccctta 2280
ccacaagacc tcccttcagc ttaatctctc ccactctagg ttcccasgct gcccctaatc 2340
ccgcttgaag cagncctgag aaacatcggc cattctctct ccataccaac ccccaaaatt 2400
ttggcggncc aaaacttaaa ac                                           2422
```

```
<210> 250
<211> 574
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (558)
<223> n equals a,t,g, or c

<400> 250
ttttatgnca aaaaacgcaa cccacgcatg aaaaatgngc caantctttc cttggaatgg 60
tctgtatttg ggtgaantcc atccagacgt caattaacac ttcctttatt ttggggttgc 120
ccaactcgtt tccccaggat ttaaagacta taacgatgat aaaagtcagt ttcgcaccct 180
gtcaaaggct tggcccgttg ccttttcctt cccggcaata ctcggttcaa ttaggtcttg 240
tcccctcatt atctgtgagg actgaattcc accccgctt ttcaacgcag gctctttgct 300
cggaaaagt caaaccatct ctcaaaggat caaagagctc agccatagac agagccgccg 360
gaggaaagcg gagtcgctgc atcagatgaa aggggcccct cagcctcact cctcaccgca 420
gctcctggga tcttaaagac agggtcagga ggatcaggag ggacaagagg gatggaggcg 480
aaaggctgga tccttaatcc aggccggaga caaagccgcg ccagggagct cgcggcgcgc 540
ggcccctgtc ctccggcncg agatgaatcc tgcg                             574
```

```
<210> 251
<211> 1044
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1010)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1011)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1012)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1013)
<223> n equals a,t,g, or c


<400> 251
ggcgggctgg ctcagtaaag cggaggcagc gggggaagat ggcggcggcc gttccacagc   60
gggcgtggac cgtggagcag ctgcgcagtg agcagctgcc caagaaggac attatcaagt  120
ttctgcagga acacggttca gattcgtttc ttgcagaaca taaattatta ggaaacatta  180
aaaatgtggc caagacagct aacaaggacc acttggttac agcctataac catctttttg  240
aaactaagcg ttttaagggt actgaaagta taagtaaagt gtctgagcaa gtaaaaaatg  300
tgaagcttaa tgaagataaa cccaaagaaa ccaagtctga agagaccctg gatgagggtc  360
caccaaaata tactaaatct gttctgaaaa agggagataa aaccaacttt cccaaaaagg  420
gagatgttgt tcactgctgg tatacaggaa cactacaaga tgggactgtt tttgatacta  480
atattcaaac aagtgcaaag aagaagaaaa atgccaagcc tttaagtttt aaggtcggag  540
taggcaaagt tatcagagga tgggatgaag ctctcttgac tatgagtaaa ggagaaaagg  600
ctcgactgga gattgaacca gaatgggctt acggaaagaa aggacagcct gatgccaaaa  660
ttccaccaaa tgcaaaactc acttttgaag tggaattagt ggatattgat tgaaatagca  720
gtgcttcagc tctaaggata ttagcaacaa tgataaaact tggccttgaa gaaatttaca  780
caactagtta gaacttgtta ctattgtaaa ggaagagtca actggaaaat tcaaggagtt  840
aataaaattt gtttacttgg tcccagcttt tgagagataa atcccttatg aatccctggt  900
ctaaaatact ttcctacagc tgtgtaaaat actggtcaag gagaactttt tccttttacc  960
tcatgttgta aacttaagtg gctcaataaa aattgatcca ctgtcttgan nnnaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaa                                        1044


<210> 252
<211> 1029
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (835)
<223> n equals a,t,g, or c
```

```
<400> 252

ggcacgagcg gccactgcct gccgcgwgcg gagccggagc ccgagcctga gtggcgccgg 60
gcccgacgtg gggctcctgg gccgcggcgg cgggcgggcg atgctccaga ggcctgacca 120
gccatggagg ccgaggcagg cggcctggag gagctgacgg acgaggagat ggcggcgcta 180
ggcaaggaag agctagtgcg gcgcctgcgg cgggaggagg cggcgcgcct ggcggcactg 240
gtgcagcgcg gccgcctcat gcaggaggtg aatcggcagc tgcagggcca cctgggcgag 300
atccgcgagc tcaagcagct caaccggcgt ctgcaggcag agaaccgtga gctgcgcgac 360
ctctgctgct tcctggactc ggagcgccag cgcgggcggc gcgccgcacg ccagtggcag 420
ctcttcggga cccaagcatc ccgggccgtg cgcgaggacc tgggcggctg ttggcagaag 480
ctggccgagc tggagggccg ccaggaggag ctgctgcggg agaacctagc gcttaaggag 540
ctctgcctgg cgctgggcga agaatggggc ccccgcggcg gccccagcgg cgccggggga 600
tcaggagccg ggccagcacc cgagcttgcc ttgcccccgt gcgggccccg cgacctaggc 660
gatggaagct ccagcactgg cagcgtgggc agtccggatc agttgcccct ggcctgttcc 720
cccgatgatt gaaggcactg cttcctccac gccgacgccc gcccggattg ctccccgagc 780
cccgggaccg ctgtggacct cgggacctgg acgccgtcct gstgcgcagg agggnccgct 840
ggcatggact aagaaatcct gacaccaaga agggcccctc gctcttgctg gcaggcagc 900
aggggggactg aaggctggag cggagggact tgctgggggt tggattgggg gtaataaacc 960
cggacggaag cggaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggrcg gccgctcgcg 1020
atctagaac                                                       1029


<210> 253
<211> 475
<212> DNA
<213> Homo sapiens

<400> 253

ggcacagcca ggtgctcctg acggacttaa gtgccaaaaa ctgactccat gctaggaacc 60
actgagttct caaccagtga gtttatgatt cctattttaa aaataacctt taaagtctga 120
ttataaaagt agtacatagt ctttgtggaa aatttattaa gtacagtaag tgcagaagaa 180
gaaataaatc actcataatc ccagcagaca gaattaatca ctgtcatttt aggtgtattt 240
ttttgcagag taaaacatgt aaacatttta catagacata aatacaaaca tgataagcat 300
tggacatgga aaatgggcag taaattctgt acatgtgcct tcttgtattt ttgttgtatt 360
tttawatcat gcyttttgc aaaatacatt ataaattaaa catggaattt cactagtttt 420
ctgtggtatt cattttccat gggctggaat aatggtccgg tccactatat ggggt      475


<210> 254
<211> 1724
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<400> 254

ggcacagtac agcaagaggg caaggacaat tgcttaagtt gacctctggg tccggaatcg 60
cgggcaaaga tggcggcggc caggtgttgg aggcctttgc tacgcggtcc gaggctttca 120
ttgcacaccg cggctaatgc cgccgccacg gctacagaaa cgacctgcca agacgtcgcg 180
gcgaccccg tcgcgcggta cccgccgatt gtggcctcca tgacagccga cagcaaagct 240
gcacggctgc ggcggatcga gcgctggcag cgacggtgc acgctgcgga gtcggtagac 300
```

```
gagaagctgc gaatcctcac caagatgcag tttatgaagt acatggttta cccgcagacc 360
ttcgcgctga atgccgaccg ctggtaccag tacttcacca agaccgtgtt cctgtcgggt 420
ctgccgccgc ccccagcgan cccgagcccg agcccgaacc cgaacctgaa cctgcgctgg 480
acctcgcggc gctgcgtgcg gtcgcctgcg actgcctgct gcaggagcac ttctacctgc 540
ggcgcarcgg cgcgtgcacc gttacgagga gagcgaggtc atatctttgc ccttcctgga 600
tcagctggtg tcaaccctcg tgggcctcct cagcccacac aacccggccc tggccgctgc 660
cgccctcgat tatagatgcc cagttcattt ttactgggtg cgtggtgaag aaattattcc 720
tcgtggtcat cgaagaggtc gaattgatga cttgcgatac cagatagatg ataaaccaaa 780
caaccagatt cgaatatcca agcaactcgc agagtttgtg ccattggatt attctgttcc 840
tatagaaatc cccactataa aatgtaaacc agacaaactt ccattattca aacggcagta 900
tgaaaaccac atatttgttg gctcaaaaac tgcagatcct tgctgttacg gtcacaccca 960
gtttcatctg ttacctgaca aattaagaag ggaaaggctt ttgagacaaa actgtgctga 1020
tcagatagaa gttgttttta gagctaatgc tattgcaagc cttttttgctt ggactggagc 1080
acaagctatg tatcaaggat tctggagtga agcagatgtt actcgacctt ttgtctccca 1140
ggctgtgatc acagatggaa aatactttc cttttttctgc taccagctaa atactttggc 1200
actgactaca caagctgatc aaaataaccc tcgtaaaaat atatgttggg gtacacaaag 1260
taagcctctt tatgaaacaa ttgaggataa tgatgtgaaa ggttttaatg atgatgttct 1320
acttcagata gttcactttc tactgaatag accaaaagaa gaaaaatcac agctgttgga 1380
aaactgaaaa agcatatttg attgagaact gtgggaatat ttaaatttta ctgaaggaac 1440
aataatgatg agatttgtaa ctgtcaacta ttaaatacat tgattttga gacaaatatt 1500
tcttatgtca acctgttatt agatctctta ctctgctcaa attcatcact gaaagattta 1560
attttagtta cctttttgttg atttaaaaat aattgcattt gtatattgct aactgataag 1620
acaaattgag ttattgagct attaaatgca cattttaata taaatgcaga aatcccaaat 1680
aaaatgctaa catactgaat tcagtaatta aaagaaccca ctgc         1724
```

```
<210> 255
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<400> 255
ggcagagcgg ctcctcagct ccaggacctt gctagcagct gccctcagga agaagtttct 60
cagcagcagg aaagcgtctc camtctccct gccagcgtgc atccccagct gtsccacggm 120
agagcctgga gacccagtac ctgcagcaca gactccagra gcccagcctt ctgtcaaagg 180
cccagaacac ctgtnagcat ctgctgcaga atcaagcgac tctttcttca gaagcagtct 240
caactgcagg cctatttaa tcagatgcag atagcagaga gctcctaccc acagccaagt 300
cagcag                                                        306
```

```
<210> 256
<211> 890
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (862)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (881)
<223> n equals a,t,g, or c

<400> 256
ggcacgaggc ccggccgccg cctgccctct ccgctggcca cctgctgccg cccgcgccat 60
ggctggcaaa gcacacaggc tgagcgctga ggagagggac cagctgctgc caaacctgag 120
ggctgtgggg tggaatgagc tggaaggccg tgatgccatc ttcaagcagt ttcatttcaa 180
agacttcaac agggcctttg ggttcatgac aagagtggcc ctgcaggctg agaaactgga 240
ccaccatcct gaatggttta acgtgtacaa caaggtccac atcacgctga gcacccatga 300
gtgtgccggc ctttcagaac gggacataaa cctggccagc ttcatcgaac aagtagcagt 360
gtccatgaca tagaccctgc ccttcctctt tgaattcttc cgggggaaag ggtgactgaa 420
ctgggagtcc agggagggag ctgaggagcc cttaccctcc caccactccc ctcccaagac 480
ccagccgccg ccgttgaggg ctgagtcctt gctgtgggat gtgccagtgt ccccaccaac 540
accaggaatt tagacctttt ccctgcacca ctctcttcat cctggggggct ctgttacact 600
aatttgaata aactctcccc tttctttgca acttcccagc aacaataatg attttcttgc 660
caggccgtct cttgctccct aattcatttc ccaggaagct gtgatacagg gtgaaataaa 720
gtcttgtctt agaaaccagg accctaaacc ccacactatg taatagaaac acatgtgttt 780
ttatgtctca aataaaacta ttatatcact tggaaaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa anaaaaaaaa aaaaagaaat naaaaaaaaa          890

<210> 257
<211> 1159
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (84)
<223> n equals a,t,g, or c

<400> 257
ggcacgaggc ggagggaaga gcgggcgggc gggaggcgcc ggcgccagac gcggagggaa 60
ggagctacga gtagccgccg agangccgcg garccagcga cgaccgaccc agccgagccg 120
ccgccgccgc cgcgccccca tggcggccgc caaggacact catgaggacc atgatacttc 180
cactgagaat acagacgagt ccaaccatga ccctcagttt gagccaatag tttctcttcc 240
tgagcaagaa attaaaacac tggaagaaga tgaagaggaa cttttaaaa tgcggcaaa 300
actgttccga tttgcctctg agaacgatct cccagaatgg aaggagcgag gcactggtga 360
cgtcaagctc ctgaagcaca aggagaaagg ggccatccgc ctcctcatgc ggagggacaa 420
gaccctgaag atctgtgcca accactacat cacgccgatg atggagctga gcccaacgc 480
aggtagcgac cgtgcctggg tctggaacac ccacgctgac ttcgccgacg agtgccccaa 540
gccagagctg ctggccatcc gcttcctgaa tgctgagaat gcacagaaat tcaaaacaaa 600
gtttgaagaa tgcaggaaag agatcgaaga gagagaaaag aaagcaggat caggcaaaaa 660
tgatcatgcc gaaaaagtgg cggaaaagct agaagctctc tcggtgaagg aggagaccaa 720
ggaggatgct gaggagaagc aataaatcgt cttatttat tttctttcc tctctttcct 780
ttcctttttt taaaaaattt taccctgccc ctctttttcg gtttgttttt attctttcat 840
ttttacaagg gacgttatat aaagaactga actcaacatt caggttgttt ttttttttgt 900
ttctaagttt ttgccctatt gaagatgact tcagaaaatc cattccccag tcatgaaaat 960
```

```
gtactgtgct aactttcttt tccatagtgg aaacacttat ttatagtcat caaaaatagt 1020
gaataaaaaa cacatttgga acctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggggggggac ggacgcgtgg gcggacgcgt 1140
gggcggacgc gtgggtcga                                                 1159
```

<210> 258
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (755)
<223> n equals a,t,g, or c

<400> 258
```
acccacgcgt ccggttctag atcgcgagsg ccgccttttt tttttwtta gaagggccag 60
cttactgttg gtggcaaaat tgccaacata agttaataga aagttggcca atttcacccc 120
attttctgtg gtttgggctc cacattgcaa tgttcaatgc cacgtgctgc tgacaccgac 180
cggagtacta gccagcacaa aaggcagggt agcctgaatt gctttctgct ctttacattt 240
cttttaaaat aagcatttag tgctcagtcc ctactgagta ctctttctct cccctcctct 300
gaatttaatt ctttcaactt gcaatttgca aggattacac atttcactgt gatgtatatt 360
gtgttgcaaa aaaaaaaaaa gtgtctttgt ttaaaattac ttggtttgtg aatccatctt 420
gctttttccc cattggaact agtcattaac ccatctctga actggtagaa aaacatctga 480
agagctagtc tatcagcatc tgacaggtga attggatggt tctcagaacc atttcaccca 540
gacagcctgt ttctatcctg tttaataaat tagtttgggt tctctacatg cataacaaac 600
cctgctccaa tctgtcacat aaaagtctgt gacttgaagt ttagtcagca ccccaccaa 660
actttatttt tctatgtgtt ttttgcaaca tatgagtgtt ttgaaaataa agtacccatg 720
tctttattag aaaaaaaaaa aaaaaaaaaa aaaan                               755
```

<210> 259
<211> 714
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (665)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (704)
<223> n equals a,t,g, or c

<400> 259
```
gtctattagc ttttacctca aaattttaag ccagaactat catctttgtt tttttatttt 60
ctatctttaa acatttatct gtgaagtgac aaatggccta cagctgtgag agcaaatgga 120
catctcctcc tgaactctga gaagatgtca aaatccacag gcaacttcct cactttgacc 180
caagctattg acaaattttc agcagatgga atgcgtttgg ctctggctga tgctggtgac 240
actgtagaag atgccaactt tgtggaagcc atggcagatg caggtattct ccgtctgtac 300
```

```
acctgggtag agtgggtgaa agaaatggtt gccaactggg acagcctaag aagtggtcct 360
gccagcactt tcaatgatag agtttttgcc agtgaattga atgcaggaat tataaaaaca 420
gatcaaaact atgaaaagat gatgtttaaa gaagctttga aaacagggtt ttttgagttt 480
caggccgcaa aagataagta ccgtgaattg gctgtggaag ggatgcacag agaacttgtg 540
ttccggtttta ttgaagttca gacacttctc ctcgctccat tctgtccaca tttgtgtgag 600
gcacatctgg gacactcctg gggaaagcct gacttcaatt atggaatgst ttcatgggcc 660
tgtgngmagg gtcctgttta atggaagttt ttaattacac tccntcacag tatc       714
```

```
<210> 260
<211> 525
<212> DNA
<213> Homo sapiens
```

```
<400> 260
ggctttacgg ctgcgagaag acgacagaag ggggtggtgg tcgcgagrga gccggaaaga 60
tggtggttac cagatctgca cgggctaagg ccagcatcca agccgcgtcg gctgaaagtt 120
ccgggcaaaa gagttttgct gctaatggga ttcaagcgca tccagaaagt agtactggat 180
ctgatgcccg aactactgct gaatcacaga ccactgggaa gcaaagttta atccctagaa 240
ctcctaaagc tagaaagagg aagagcagaa ctacaggctc actaccaaag gggactgaac 300
catctacgga tggagagacc tctgaggcag agtcaaatta ttctgtgtct gagcaccatg 360
ataccatttt aagggtaact aggagaaggc agatcttaat tgcatgctcc ccagtgtcca 420
gtgttaggaa aaagccgaaa gtaactccaa caaaggagtc ttacactgaa gaaatagtgt 480
ctgaagcaga atctcatgtt tcaggtattt ctaggaattg tgctt       525
```

```
<210> 261
<211> 3000
<212> DNA
<213> Homo sapiens
```

```
<400> 261
gaattctcgg gtcgacccac gcgtccgacc cacgtgtccg gcttccccgg tgtccccca 60
tcccctccc cgcgcccccc ccgcgtcccc ccagcgcgcc cacctctcgc gccggggccc 120
tcgcgaggcc gcagcctgag gagattccca acctgctgag catccgcaca cccactcagg 180
agttggggcc cagctcccag tttacttggt ttcccttgtg cagcctgggg ctctgcccag 240
gccaccacag gcaggggtcg acatggcaga gacactggag ttcaacgacg tctatcagga 300
ggtgaaaggt tccatgaatg atggtcgact gaggttgagc cgtcaggcat catcttcaag 360
aatagcaaga caggcaaagt ggacaacatc caggctgggg agttaacaga aggtatctgg 420
cgccgtgttg ctctgggcca tggacttaaa ctgcttacaa agaatggcca tgtctacaag 480
tatgatggct ccgagaatc ggagtttgag aaactctctg atttcttcaa aactcactat 540
cgccttgagc taatggagaa ggacctttgt gtgaagggct ggaactgggg gacagtgaaa 600
tttggtgggc agctgctttc ctttgacatt ggtgaccagc cagtctttga gataccctc 660
agcaatgtgt cccagtgcac cacaggcaag aatgaggtga cactggaatt ccaccaaaac 720
gatgacgcag aggtgtctct catggaggtg cgcttctacg tcccacccac ccaggaggat 780
ggtgtggacc ctgttgaggc cttgcccag aatgtgttgt caaaggcgga tgtaatccag 840
gccacgggag atgccatctg catcttccgg gagctgcagt gtctgactcc tcgtggtcgt 900
tatgacattc ggatctaccc cacctttctg cacctgcatg caagaccctt tgactacaag 960
atccctaca ccacagtact gcgtctgttt ttgttacccc acaaggacca gcgccagatg 1020
ttctttgtga tcagcctgga tccccaatc aagcaaggcc aaactcgcta ccacttcctg 1080
atcctcctct tctccaagga cgaggacatt cgttgactc tgaacatgaa cgaggaagaa 1140
gtggagaagc gctttgaggg tcggctcacc aagaacatgt caggatccct ctatgagatg 1200
gtcagccggg tcatgaaagc actggtaaac cgcaagatca cagtgccagg caacttccaa 1260
```

```
gggcactcag gggcccagtg cattacctgt tcctacaagg caagctcagg actgctctac 1320
ccgctggagc ggggcttcat ctacgtccac aagccacctg tgcacatccg cttcgatgag 1380
atctcctttg tcaactttgc tcgtggtacc actactactc gttcctttga ctttgaaatt 1440
gagaccaagc agggcactca gtataccttc agcagcattg agagggagga gtacgggaaa 1500
ctgtttgatt ttgtcaacgc gaaaaagctc aacatcaaaa accgaggatt gaaagagggc 1560
atgaacccaa gctacgatga atatgctgac tctgatgagg accagcatga tgcctacttg 1620
gagaggatga aggaggaagg caagatccgg gaggagaatg ccaatgacag cagcgatgac 1680
tcaggagaag aaaccgatga gtcattcaac ccaggtgaag aggaggaaga tgtggcagag 1740
gagtttgaca gcaacgcctc tgccagctcc tccagtaatg agggtgacag tgaccgggat 1800
gagaagaagc ggaaacagct caaaaaggcc aagatggcca aggaccgcaa gagccgcaag 1860
aagcctgtgg aggtgaagaa gggcaaagac cccaatgccc ccaagaggcc catgtctgca 1920
tacatgctgt ggctcaatgc cagccgagag aagatcaagt cagaccatcc tggcatcagc 1980
atcacggatc tttccaagaa ggcaggcgag atctggaagg gaatgtccaa agagaagaaa 2040
gaggagtggg atcgcaaggc tgaggatgcc aggagggact atgaaaaagc catgaaagaa 2100
tatgaagggg gccgaggcga gtcttctaag agggacaagt caaagaagaa gaagaaagta 2160
aaggtaaaga tggaaaagaa atccacgccc tctagggct catcatccaa gtcgtcctca 2220
aggcagctaa gcgagagctt caagagcaaa gagtttgtgt ctagtgatga gagctcttcg 2280
ggagagaaca agagcaaaaa gaagaggagg aggagcgagg actctgaaga agaagaacta 2340
gccagtactc cccccagctc agaggactca gcgtcaggat ccgatgagta gaaacggagg 2400
aaggttctct ttgcgcttgc cttctcacac cccccgactc cccacccata ttttggtacc 2460
agtttctcct catgaaatgc agtccctgga ttctgtgcca tctgaacatg ctctcctgtt 2520
ggtgtgtatg tcactagggc agtggggaga cgtcttaact ctgctgcttc ccaaggatgg 2580
ctgtttataa tttggggaga gatagggtgg gaggcagggc aatgcaggat ccaaatcctc 2640
atcttacttt cccgacctta aggatgtagc tgctgcttgt cctgttcaag ttgctggagc 2700
aggggtcatg tgaggccagg cctgtagctc ctacctgggg cctatttcta ctttcatttt 2760
gtatttctgg tctgtgaaaa tgatttaata aagggaactg actttggaaa aagagaggta 2820
ggcaggagga aggtttatac gcgagtttgt atgggttttg tggggcgtta gccggggact 2880
ttgcgtaagt gggcccgagg gggagagagg ctcctccgcg agcccccgac gcggttgcgt 2940
gtccaggtct ttgagccaaa gtggtcccaa tggtcgcgtt ggtccaattg gcagcttcgg 3000
```

```
<210> 262
<211> 966
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (935)
<223> n equals a,t,g, or c

<400> 262
caaagcagtg cactgaaaat caatttaagt atttactgga gttgtcttga aggcccaatg 60
ggaaatgtca gtaagggcac atgagaaaac actttaagaa cctattcttc caaagatctt 120
tccagtatct tatgacaaca cagtaaatta tacccactcc aaatgcaaaa gctgaaacta 180
ctctgctttc tcacttamct acacttttga ctttcgaaat acatttctct cttcggatat 240
gagctgcaaa ctccttatat aaaggctcca actctgcagc cctaattatt ctagttggcc 300
caagaaaaat cctaattgtt ttatctaagg agacggaatt ttccaatact gtagaggcat 360
gtgtgtgtgt ttgctttaag gaagctgttt ggtaataaa agtcactgr aggtcataaa 420
ttcatgttaa cacatccagt gtacatgaag taggcaccga gttaaactat ttgtctacta 480
tatagcatgt catcttaaaa gccttatttt ttcctcaaaa tattaacttt attttctcc 540
ctgtaaaatc aagacacagt taaaatgtag ccttcctcat tttctgggaa tactttctaa 600
```

```
caagatatgc ttctttccaa ttggacttct aaatttctag caattctaac agtgcataaa 660
agaggcaacc ccaaaagtgt agcaggtact gaataacaga tttgcagcct tgggtatcca 720
cattaaaatt tgaaatctaa gtgaattact tcaagctgat ttcttaggtc aaggagagat 780
tatggtcctt aaatgcctga taaggtcaca tacacaattt caagtgcatt atagtaaatc 840
catgtgwaca gctcctacag ctactaacct gcttctgccc tcacgggtag cgtgcacaat 900
cttcatcgca tgtcctgggt gggtggggta ggganccagt taaaaaaccc ccctggggtc 960
atgttc                                                          966
```

<210> 263
<211> 2738
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (762)
<223> n equals a,t,g, or c

<400> 263
```
ggccggctga gggcacttgc tcttgctgtt tctgccctg ggttaacatt caagatggta 60
catgctgaag cctttttctcg tcctttgagt cggaatgaag ttgttggttt aattttccgt 120
ttgacaatat ttggtgcagt gacatacttt actatcaaat ggatggtaga tgcaattgat 180
ccaaccagaa agcaaaaagt agaagctcag aaacaggcag aaaaactaat gaagcaaatt 240
ggagtgaaaa atgtgaagct ctcagaatat gaaatgagta ttgctgctca tcttgtagac 300
cctcttaata tgcatgttac ttggagtgat atagcaggtt tagatgatgt cattacggat 360
ctgaaagaca cagtcatctt acctatcaaa aagraacatt tgtttgagaa ttccaggctt 420
ctgcagcctc caaaaggtgt tcttctctat gggcctccag gctgtggtaa aacgttgatt 480
gccaaggcca cagccaaaga agcaggctgt cgatttatta accttcagcc ttcgacactg 540
accgataagt ggtatggaga atctcagaaa ttggctgctg ctgtcttctc ccttgccata 600
aagctacaac catccatcat ctttatagat gaaatagact cctttctacg aaaccgttca 660
agttctgacc atgaagctac agccatgatg aaagctcagt ttatgagtct ctgggatgga 720
ttggatactg atcacagctg ccaggtcata gtaatgggag cnrccaatcg tcctcaggac 780
cttgactcgg ctataatgag aagaatgcct acaagatttc atatcaacca gcctgcttta 840
aaacagagag aagcaatcct gaaactcatc ttgaaaaatg aaaatgtgga taggcatgta 900
gacctgctag aagttgccca ggaaactgat gggttttcag gaagtgacct aaaagagatg 960
tgtcgagatg ctgccctcct ctgtgttaga gaatatgtta attctacatc agaagaaagc 1020
catgacgaag atgaaattcg gcctgttcaa cagcaggacc tgcatcgggc aattgaaaag 1080
atgaagaaat caaaggatgc agcatttcag aatgtttaa cacatgtttg tttagattaa 1140
gagtaaagat catttgtaca gttcagtgat ctagtttggt gtgtcctctt atcagttagt 1200
ggaaatagaa cggaaagagt gctctttaaa caatgaggga gctcagtgtt tatggtttta 1260
tactctgaat tctaagttat tgagatatag ttgttacata ggtggtatta ctgttggtca 1320
aaaatcatga ggaggaacag ttgaatccag cctgaacgtg ggtgcttgtg tttgaccttt 1380
tcagccatat attgtacagc cttatagaat ctaagctggt cttaaagtca taaatgattc 1440
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tgcgtttgtg tgtgtgcgtg tatgtatgtg tatattaaat gtatatatcc acacatttta 1560
tattgacatt ctgtagatat gtttgaatat agaaactttt tttaccccaa ctactgaatc 1620
caggagtacc aaataatata tagtaaaact aagatttaag gttgtgtcaa aaaggtacag 1680
tgattcagcc atttccattt gtcatttgtt tcaacctttt ttaagttgag tgtttttatt 1740
tctgcagtta ttagttggat cctccacatc ttgcatatat acatgggctc aattattatg 1800
tttgtcagga taatcaaatg aaaatactag ttcagtgatc agcattgaat ggttgttagg 1860
cagccatgtg ctcaacactg atttcacctc ttgagtataa acttttaaa tttaaattgg 1920
```

```
tttacatgaa agtggattaa aaggcctttc aaaagaatgg gtttgaaaaa cytcagtacc 1980
ctttaataca tgtacatttc tttccttttt tcatttaatg taacatgtct gttgtaacta 2040
tgtttcttaa atattatttt aaggttatgt gttctttaat tatggtcaaa tataatttgg 2100
tcaccaaaaa tgaaataata gtttaaaaca agtagctgtt actaagtgtg ctaaaaatac 2160
tcattttata attaatttta gttttcttag tatattatta taaattgtgc cctaagtcag 2220
gtacaaatgt acacatcaaa atgcccatat tgtatctatc tgtagtcgtt taatgtgaat 2280
tatatgtgaa ttttttttcaa aattttacta accagaattc tgttataggc acctaaccac 2340
gcagcatgag gaaaacggca caacacaatc ttgaggtgcc ttctgaatca tcagattaaa 2400
ttatgcttca tatgtttttg cttttactgt atttctttaa aaactctaaa tctttattca 2460
tgtgtcactg gattaattta tctgataatg tgtctcacaa gaatctgtta gatcgtttat 2520
tcttcagttg tactttgaat ggtgggggtgg aagtttcagg tgaacaatgg ataacaaaaa 2580
gcaagttatg gaagattgtg aagaggatgg aaaaactgaa tacaagatac caaaaatgaa 2640
aaaaagtgtc ccattttttaa taactatatt ctattatttt ataaatgtgt aataaagggg 2700
tccctcttta aaaaaaaaaa aaaaaaaaaa aaaaaaaa                          2738
```

<210> 264
<211> 1520
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 264
```
tcgntccatc ataangcncc atgtgcggaa ttcgctttac ggctgcgaga agacgrcaga 60
agsgggcggt cgtgtagctg agcagscctg gggcttggtt ctatgtccct gtggctatgt 120
ttccagtgtc ctctgggtgt ttccaagagc aacaagaaac gaataaatct ctgacccttc 180
tcaggtgcag ccagagagac actagcccac tgatggaygg acagacgtgg gcagggtccg 240
tgtcactaaa ccacccacca ctgccacagc tgcctacaac agacacatca gatgacactc 300
cgggcaaata aatgattttc actgaggact tactggtttt aataataggt cctggtgtag 360
agaagtccct caacctattg tgcaatgagt tttgagaagc gggtaagctg tatgttttgt 420
ggttytgttt cataaatkca tctacaggaa gaccaatatt gactgaatga agctttcatt 480
taaagagcta aaatatgctt tgtgtttta tatgtggata ctactttaaa cctaacgact 540
attcattgta tcatagcttg tgatgtattc tgctcayggc ttttaaggta aattgtgcca 600
tgatccactg ccattctaat tgctttaaca agtcattacc acactactgt tacatcttaa 660
ttatgcatac agacaggtag acttrttttta catatgtgaa ctaactagtt gtcaaagcaa 720
atgcagattg tattctgcaa gtaaagtctt tttctctctg aaatttctag ggatgttctt 780
taagtgaaat tcatattmaa actgaagatt ttagttacaa gaactgagtg cagattaaag 840
tcttttgtga ttcaaacata gtcaagagta caactgtgat atttcatgga agttatgcaa 900
```

```
taaaatgtct ctaacctgcg aamaaatctr tcaagcagac gkcacagtac tgaatttgaa 960
accagaaata ctgggttttt atataaatgc ttcatagatt tgtttttatga taaagggcac 1020
ataactctcc taaacctcac accacctctt gaataggtat aataagtcca catcaatgct 1080
gatgccttag ctattattaa actcttacag tatgatgtaa agtgaaagta caatgtaaga 1140
tcattcctag gccaactttg accagttta tacagaaaca tgtgccaact tttctgtttg 1200
caaggataat atcaaagcaa acaccagaaa gttatatctt tgatgcattt tttcaaaatc 1260
atacacataa tacacaaacc aaagacaaat gatgaatatt aygtcagaaa atataaagtc 1320
ttcccctttc ttcttttgcc aagaaagtcc aatattttca ccatttttat gcacacaatc 1380
aactttattt aagctggaag ttaatgtctc attgttttca ttgttctaaa taaacacctt 1440
ttcccttgag tattgytcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaagg                                             1520
```

<210> 265
<211> 1568
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1318)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1469)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1502)
<223> n equals a,t,g, or c

<400> 265
```
acccacgcgt ccgcacaagc cgtctaccta accagaacgg gactgtttta ccctcagagt 60
ctgctggact agctactgcc agttgtccta tcactgtctc ttctgtagtt gctgccagtc 120
agcaactgtg tgtcactaat acccggactc cttcatcagt cagaaagcag ttgtttgcct 180
gtgtgcctaa gacaagtcct ccagcaacag tgatttcttc tgtgacaagc acttgtagtt 240
ccctgccttc tgtctcctct gcacctatca ctagcgggca agctcccacc acatttctac 300
ctgcaagtac ttctcaagca cagctttctt cacaaaagat ggagtctttc tctgctgtgc 360
cacccaccaa agagaaagtg tccacacagg accagcccat ggcaaaccta tgtaccccat 420
cttcaactgc aaacagttgc agtagctctg ccagcaacac cccgggagct ccagaaactc 480
```

```
acccatccag tagtcccact cctacttcca gtaacacaca agaggaggca cagccatcca 540
gtgtgtctga tttaagtcct atgtcaatgc cttttgcatc taactcagaa cctgctccat 600
tgactttgac atcacccaga atggttgctg ctgataatca ggacaccagt aatttacctc 660
agttagctgt accagcacct cgagtttctc atcgaatgca gcccagaggt tcttttttact 720
ccatggtacc aaatgcaact attcaccagg atccccagtc tattttttgtt acgaatccag 780
ttactttaac accacctcaa ggcccaccag ctgcagtgca gtttcttcag ctgtgaacat 840
tatgaatggt tctcagatgc acataaaccc agcaaataag tctttgccac ctacatttgg 900
cccagccaca cttttcaatc acttcagcag tctttttgat agtagtcagg tgccagctaa 960
ccagggctgg ggagatggtc cactgtcctc acgagttgct acagatgcct ctttcactgt 1020
tcagtcagcg ttcctgggta actcagtgct tggacacttg gaaaacatgc accctgataa 1080
ctcaaaggca cctggcttca gaccaccttc ccagcgagtt tctactagtc cagttgggtt 1140
accatccatt gacccatcag gcagctcccc atcttcctct tctgctcctc tggcaagttt 1200
ttccggcata ccaggaacaa gggtttttcct gcaagggcca gctcctgttg ggactcctag 1260
tttcaacaga caacattttt ctccccatcc ttggacaagc gcctcaaact catgtgantn 1320
tcctattcca tstgtttctt cgggatcatc ttcamctctt tcagccaytt cttgccccac 1380
caacgttggg gccaaccaaa agggagtcag tgccagtcaa ggattcggaa aggttacctt 1440
cccccaattg gggaacagga ggaggactng ggcccgaatt tngggcaagg gaggggggttt 1500
tntttggcac aaggccccgg gggggaacca gttttttttgt tcggtttccc tttgggacaa 1560
agtggggga                                                        1568
```

```
<210> 266
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (508)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<400> 266
agtaagtcgc tgatttttgtt tctttttttc aaacagtttt gatttgaagt tcctttaaag 60
gctgttggag cttttgcaaa tacccagcta atgaaaggca cttaagattg ggcccatctg 120
catcatcaca ttgaagtttt ctgtctaaag gaaggttcca gctacctgtt acccttttgc 180
taaacacagt tgcagtgttg cagtgtattt catgacaaaa gtgcactcta gttttctgtg 240
aaatgattat tttctctgaa atgattcttg gtcatgttga gcttctaaat gttaaagaga 300
```

```
acatagtgct tttgacctgt gggaaatctc atcttggnta ccatggtgct gcacagacca 360
tcaggaagaa ctgaaaagtt caggcaactt gagnaaaata aagtcaccac cmgcaaggar 420
gctgtctaaa ataaccggra gattattamc ccagcacgtg gragartgtg ctagtgggta 480
gatgttwtgg aargctacta ggggtccncc cttaggtgcc tgtgctagtc ctaagggggn 540
ggtgg                                                          545
```

<210> 267
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (712)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (740)
<223> n equals a,t,g, or c

<400> 267
```
aattcggcac agggaatggc ggggtctcct gagttggtgg tccttgaccc tccatgggac 60
aaggagctcg cggctggcac agagagccag gccttggtct ccgccactcc ccgagaagac 120
tttcgggtgc gctgcactgc gaagcgggct gtgaccgaaa tgctacaact gtgcggccgc 180
ttcgtgcaaa agctcgggga cgctctgccg gaggagattc gggagcccgc tctgcgagat 240
gcgcagtgga cttttgaatc agctgtgcaa gagaatatca gcattaatgg gcaagcatgg 300
caggaagctt cagataattg ttttatggat tctgacatca aagtacttga agatcagttt 360
gatgaaatca tagtagatat agccacaaaa cgtaagcagt atcccagaaa gatcctggaa 420
tgtgtcatca aaaccataaa agcaaaacaa gaaattctga agcagtacca ccctgttgta 480
catccactgg acctaaaata tgaccctgat ccagtccttg cctgcattaa ttgaacaagg 540
agagggattt tcccaagttc tcaggatgca acctggtatc caccttcaga ggattcacca 600
agaagtcttt ttcagttgtc ataaggaaac cagatgctwa acctgagact ttatwacaca 660
gattgaaacc acaccaacag aaactggttt caggaaaaac cttttacgtg gnacttgaaa 720
aagaaagcaa acttaaagan ttggccccca aaagaaaaat gg                 762
```

<210> 268
<211> 1433
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (893)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (947)
<223> n equals a,t,g, or c

<400> 268

```
gcggaggcct ccgtagtgat ctggccttta ctttctcccc gagtcacggg aagccctcgt 60
tgacctcaca gggtggacac ccggaggcga gatcccgttc cgcggagcag agccctttct 120
catggaacag gacgtgtcgg ggccgctgct ggggaaagca gccgggcccc cagatgctgg 180
agcgggagca ggccccgggc ccccgcagac cctccgcggc accgcccgct cttgtgcctt 240
tcccggcgtg gctcaccgcc tcaccatctc gggtgtcttt taggagaatc cttcatgcag 300
ctgcagcagc gtctcctgag agagaaggag gccaagatca ggaaggcctt ggacaggctt 360
cgcaagaaga ggcacctgct ccgccggcag cggacgaggc gggagttccc cgtgatctcc 420
gtggtggggt acaccaactg cggaaagacc acgctgatca aggcactgac gggcgatgcc 480
gccatccagc cacgggacca gctgtttgcc acgctggacg tcacggccca cgcgggcacg 540
ctgcccctcac gcatgaccgt cctgtacgtg gacaccatcg gcttcctctc ccagctgccg 600
cacggcctca tcgagtcctt ctccgccacc ctggaagacg tggcccactc ggatctcatc 660
ttgcacgtga gggacgtcag ccaccccgag gcggagctcc agaaatgcag cgttctgtcc 720
acgctgcgtg gcctgcagct gcccgccccg ctcctggact ccatggtgga ggttcacaac 780
aaggtggacc tcgtgcccgg gtacagcccc acggaaccga acgtcgtgcc cgtgtctgcc 840
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cggggagaca gatcctcact ctccgtgtga ggctcgcagg ggmgcantca gctggctgta 960
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cgcccacaga ggcctgcggg gtgggggcat cgctgcctgg ggagctgagg cgttaccgct 1140
gtgttggggg cagcttggtg tcaggtgcag cagggtcctc cttgtctggt tctgcacccg 1200
tctcgctccc agccatttgc tgggatgacc gtgcaggccg gtgacacggc cgcacctgcc 1260
ccaaagcggg ccgcccgagc gtccactcca agcctgagca tccacacaat tccagtgggc 1320
cctcggtgcc tgctgtgaac tgctttccct cggaatgttt ccgtaacagg acattaaacc 1380
tttgwtttta cttccgtgaa aaaaaaaaa aaaaaaaaa aaaaaaaaa ggg         1433
```

<210> 269
<211> 2278
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2277)
<223> n equals a,t,g, or c

<400> 269

```
cacagtatgg aaatacgggg aagcaggaga tagatccgga aaaataaagt tgagaccaga 60
ctgtagactg tcttgaatgc caagctaaag tgtttatact ttattcagta aataaacaaa 120
actggtagcg caagaaaagg agtgagcaag tggtaacaac ttaaagacaa ttcattttgc 180
tcccacgtgt tatatcatga atttnttggg cccaaagtca tatatagaat tttttaaata 240
```

```
attgatactt gattaaagaa agcacaaaga cataaaaata aaacattctt ggtgggggga 300
aatggttttt aagaggcatt ttattaattt taccncaggt atattgccc tgtgttttac 360
aaacaaaaar gaggtatgtg ggttacatgt atgaaacact ggatcagaag gacccagtat 420
ttgatgcaaa aggaatagaa acagtcagaa gagattcctg ccctgctgtt tctaagatac 480
ttgagcgttc tctaaagctg ctatttgaaa cgagagatat aagtctaatt aaacagtatg 540
ttcagcgaca atgtatgaag cttctggaag gaaaggccag catacaagac tttatctttg 600
ccaaggaata cagaggaagt ttttcttata aaccaggagc ttgtgtgcca gcccttgaac 660
ttacaaggaa aatgctgact tatgaccggc gctctgagcc tcaggttggg gagcgagtgc 720
catacgtcat catttatggg accccggag taccacttat ccagcttgta aggcgcccag 780
tggaagtcct gcaggaccca actctgagac tgaatgctac ttactatatt accaagcaaa 840
tccttccacc cttggcaaga atcttctcac ttattggtat tgatgtcttc agctggtatc 900
atgaattacc aaggatccat aaagctacca gctcctcgcg aagtgaacct gaagggcgga 960
aaggcactat ttcacaatat tttactacct tacactgtcc tgtgtgtgat gacctaactc 1020
agcatggcat ctgtagtaaa tgtcggagcc aacctcagca trttgcagtc atcctcaacc 1080
aagaaatccg sgagttggaa cgtcaacagg agcaacttgt aaagatatgc aagaactgta 1140
caggttgctt tgatcgacac atcccatgtg tttctctgaa ctgcccagta cttttcaaac 1200
tctcccgagt aaatagagaa ttgtccaagg caccatatct ccggcagtta ttagaccagt 1260
tttaaattgt caatatcaca gtattacagg tgctatttt ttcagtgctt accactaaac 1320
tgttgtgcat ggtgcttttt aactttcatc gagtcaagga tgttcactgt ctgttatctg 1380
aagactatga agacwtctat gctaaccgaa ttaaaatgta cttgttgatc tctgaatagc 1440
tcacttctta caatgtacaa attcctcatt ctgtcacctt ttaaacattg ttttataatg 1500
caggtgttgg atttgctcca gtatgtgtac catcttgtaa attcatttga gtagatcatg 1560
tttacttccc agtggaagga gcactgaaaa cctcttaaag aaaaagcatt tgtgtgtttt 1620
ccttgaactg tctgtatcaa gacgtgttac ttcgagatat ccattcactt tataattttr 1680
actgcaaaat attttgtaaa tacacttttt tacttttcaa acgagtaaaa taatgtgcaa 1740
tgattttat acaaatgatt ttcaagttgt ttggtatatt tcctctaggt tttgcttgac 1800
tcaaagtaga tcgttatttt gatcaaactg tgcaaacagt agtaccacgt gtagcatttt 1860
gaaacattat tttttaaaaa atgctgtctt gctttagcta ttaatggggc attgtgagga 1920
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aatgtgtatt tagaatattt gtataactgt gtaaaataaa aaaggaatta tgtggtcagt 2160
gcattgtttt ttaaactgga aatcattttg ttttaaaagt taataatgga aaccatatta 2220
aaattgaata aaatataaaa taatataaaa aaaaaaaaaa aaaaaaaaa aaaattnc 2278
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<210> 270
<211> 2533
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2514)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (2531)
<223> n equals a,t,g, or c

<400> 270

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tgctggaagc gtcgaagctc agcggggccg cggacactga cctgtgctta gaactcatcc 180
tggcccgcag agcctgccgc gagtccctgg cgtcccctgt ggcgggctct tggagccact 240
ttcccgagcg gaagtcagcc cgcggctcgg actccggcgg gacctgctcg gaggaatggc 300
gccgccgggt tcaagcactg tcttcctgtt ggccctgaca atcatagcca gcacctgggc 360
tctgacgccc actcactacc tcaccaagca tgacgtggag agactaaaag cctcgctgga 420
tcgccctttc acaaatttgg aatctgcctt ctactccatc gtgggactca gcagccttgg 480
tgctcaggtg ccagatgcaa agaaagcatg tacctacatc agatctaacc ttgatcccag 540
caatgtggat tccctcttct acgctgccca ggccagccag gccctctcag gatgtgagat 600
ctctatttca aatgagacca aagatctgct tctggcagct gtcagtgagg actcatctgt 660
tacccagatc taccatgcag ttgcagctct aagtggcttt ggccttccct ggcatccca 720
agaagcactc agtgccctta ctgctcgtct cagcaaggag gagactgtgc tggcaacagt 780
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ggccactgtt aaactagaac atgctaaatc tgttgcttcc agagccactg tcctccagaa 1260
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<210> 271
<211> 1618

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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1612)
<223> n equals a,t,g, or c

<400> 271
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tctttatagc cagaaacaac ttagtcatca aatagcaagt gaaaccaaaa cgtcagaggg 120
attactgtac ttggaagtat gttgtgtgtc ccaaatgtga acgaagtatt gttagaattt 180
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tcccaaaata ttttctttaa rgtcagcaca gtactgtata tgaatcttta atgtggtatc 360
atatatgtct actttgtct gattcatcga tgtattatat ctttataatt gaatattta 420
gctccgggtc ctgttgcccc ttcaagcagt acatgccaaa ttataaatag gtgctactgg 480
ccttgagcat atcactgtgg gacagttccc caattgtcaa gtgtttagat atgtagacta 540
ttgccatttg ttttttttgtt ttggtttttgc tttgtgtctg aagctgaatt gatttctttt 600
ttttgaatgt gaaagttgaa tttcaaacgt agtcatttct tacagatggc caagacagaa 660
aattgtggct aggttgactg agaactgttg tcttccatgt attaacacaa ttaagctttt 720
tatattccac tctctgtgct gaccctggct gaggcatttt gggagacaag gactctgaat 780
cttctgcttc cattaaagaa gaactgtgat attcaacatt ggatttctga gaataaagat 840
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aatgttcatt cctgttttct cttaagagaa tgtgctgtgt actaaataca ggccacatag 1020
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aggagagaag catttccttt gatgaagtca catcctgtct atgagcccac taatgctgta 1260
acattggcct gaaagagagt gttctttaaa agcctttctc ggctgttagt ataaaaacat 1320
gatggtatca gctcttagca tgtttgcttg acccttatgg aaggtataaa tccacagaac 1380
ttccttccca gagaactggg aaattgtcct agaaataaac cttgtacagt tgagtggaca 1440
tggataagca acaatttgtt actttgcagg atttgttcct tggtaattgt ttggtgtgtc 1500
atcctgtaaa tattcatgat agtctgttta tatcctttg tatatcgttg atactggatt 1560
gggtagaaaa ataaattggc aatttaaaaa aaaaaaaaa aaaaaaaaa tntctcgg 1618

<210> 272
<211> 470
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (429)
<223> n equals a,t,g, or c

<400> 272
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cagtgtgatc tttggtgctc ttaggatcac tttggtatct gctcattttc cttttgtct 120
accctataaa gcacaaaatc gagtgggtaa aaagtatgaa accagcactg tttctacttt 180
cttagaggtc tggtatctag tgagcaggct gaggcctcag gactagttca gtgttaagga 240
tttcatgttg aaactcattt gtcctctgtg ggttttttga cagtagagag tgacctaact 300
catttgattt tgtttttccc tcagttgact ttccatcttc agttcgaata catttaattg 360
accaaaatgg cagacattga gtgagtactt cttgncccag tttnaattct ttccttcctt 420
ttttncccng gttgtgagtt aattggttca acttctgggt tcagggtttt          470


<210> 273
<211> 983
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (879)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (915)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (930)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (967)
<223> n equals a,t,g, or c

<400> 273
ccaagcggaa gtgacgttag tgtccgccgg agtgtcgttg gtgtgttgcg cgactggcct 60
tgagggagag ctggggcctg ctcccggaga gatacggcta tgtcgatcga aatcgaatct 120
tcggatgtga tccgccttat tatgcagtac ttgaaggaga acagtttaca tcgggcgtta 180
gcaccttgca ggaggagact actgtgtctc tgaatactgt ggacagcatt gagagttttg 240
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tggctgacat taacagtggc cattgggata ctgtgttgca ggctatacag tctctgaaat 300
tgccagacaa aaccctcatt gacctctatg aacaggttgt tctggaattg atagagctcc 360
gtgaattggg tgctgccagg tcacttttga dacagactga tcccatgatc atgttaaaac 420
aaacacagcc agagcgatat attcatctgg agaacctttt ggccaggtct tactttgatc 480
ctcgtgaggc atacccagat ggaagtagca aagaaaagag aagagcagca attgcccagg 540
ccttagctgg cgaagtcagt gtggtgcctc catctcgtct catggcattg ctgggacagg 600
cactgaagtg gcagcagcat cagggattgc ttcytcctgg tatgaccata gatttgtttc 660
gaggcaaggc agctgtcaaa gatgtggaag aagaaaagtt tcctacacaa ctgagcaggc 720
atattaagtt tggtcagaaa tcacatgtgg agtgtgctcg attttctcca gatggtccag 780
tatttggtca ctgggtctgt tgatggattc attgaagtat gggaacttta ctactggaaa 840
aatcagaaag gatcttaagt taccaggccc aagattaant ttatggatga tgggttgatg 900
ctgttcccct ggcangtgtt ttcagccagn ggttacagaa atgtttagcc aacttggggc 960
cccaggntgg gaaaattcaa ggt                                         983
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<210> 274
<211> 2006
<212> DNA
<213> Homo sapiens

<400> 274

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cccacacact ggagtaattc tgaaaaaaat tattcctaaa ctctctaagt gtggacggag 120
aatgagcaag ccccagaagt attttacaac cagagtgggt aatgaggagg gggcttactg 180
gaatcgtcat atctctgaat attgaaaaca acaactaaaa aagtggacct tctcagaaaa 240
aaagggcagc aaatgaccaa gggcgcccct tctggccgtg cttggcttga gtaactgtct 300
ctctttcccc accccatca cagggctttc agtttggcaa aggaaaagca gataaaaaca 360
gaacattcca tatgtttctt tctccatcgg ccaaaaacat tttgacacaa tgtttgtgaa 420
acacctttgg agaggtgcac ttctgaatgc tgcctctgcc gtaaatcctg ggggcaaggg 480
atcagcctct tcccaggaac catcgccttc tataaaccgt gaactcaagc aggcattttt 540
tttttcttac cgaaaggctg ctattgtgca agggcacata atgggtctgt ttgctcttat 600
tggcttccaa atgtgcatgg caaagagaga gatgtgggcc tagagcagat atattcagca 660
aggtgacagy ttcccataac aattctaaca cttcttatct tatgtgagaa taaaatattt 720
aagggttgaa ccttattttg ccaaatgtat cttttctgct tttgaattgg gcagaagatt 780
ttagcaacta tattctacaa atgttactta taacacacac acacacatct gaaatatatg 840
ccgaaaattg acgtctttgr cctcagggag agcacctgtc caggtctgcc taaaggaaat 900
ggctccagtg ggtctaaaca accacatcct atccatggat aggtctagtc ataacacttt 960
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cctccctgca cgtctgtgtc ttcatttcta aaatgggggt gatgctttca tattgacctc 1140
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gatggcctag dacataggtc tcaaagactc ttggatcaga atcaggagat tagggaaaac 1500
aggatggata cctgagcact aacagcagta gacgtagacc tctgtccttt accatctgag 1560
gtcttctgga ttctttgtgg ggttaatttt gatttgatgt catctgtttg cccttcatct 1620
tgcttgcaag tgtgcatggt tcaatccctc acatccagga aatgaatttt gcaattgggc 1680
cagatgctaa tttgcacgtt gattcacctt ctttgccttt aagcctttt ttcttttttt 1740
ttttttttgg caaatgaatg taccatttca actttgattt taatagtgct agttgatatt 1800
ggtaataatg ctaaccaaga gatcaatgcc agatttttct cttggggtaa gttagctgaa 1860
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gtcatttaaa gatggaaagg tgggaaaatt ctttgatatt tgatgtcatt gtatccacat 1920
ttgttgtaag acatattgca taccaattat aattatatca attaaagttg ataaaagctt 1980
caaaaaaaaa aaaaaaaaa  aaaaat                                       2006
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<210> 275
<211> 1376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1368)
<223> n equals a,t,g, or c

<400> 275
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aaanaacaaa agatccagat gttcgattgg gcctcaatca gcattaccca agctttaaac 60
cacctccatt tcagtaccat caccgtaamc ccatgggatt ggtgtgacag ccacaaattt 120
cactacacac aatattccac agactttcac taccgccatt cgctgcacaa agtgtggaaa 180
aggtgtcgac aatatgccgg agttgcacaa acatatcctg gcttgtgctt ctgcaagtga 240
caagaagagg tacacgccta agaaaaaccc agtaccatta aaacaaactg tgcaacccaa 300
aaatggcgtg gtggtttag ataactctgg gaaaaatgcc ttccgacgaa tgggacagcc 360
caaaaggctt aactttagtg ttgagctcag caaaatgtcg tcgaataagc tcaaattaaa 420
tgcattgaag aaaaaaaatc agctagtaca gaaagcaatt cttcagaaaa acaaatctgc 480
aaagcagaag gccgacttga aaaatgcttg tgagtcatcc tctcacatct gcccttactg 540
taatcgagag ttcacttaca ttggaagcct gaataaacac gccgccttca gctgtcccaa 600
aaaaccccct tctcctccca aaaaaaaagt ttctcattca tctaagaaag gtggacactc 660
atcacctgca agtagtgaca aaaacagtaa cagcaaccac cgcagacgga cagcggatgc 720
ggagattaaa atgcaaagca tgcagactcc ggttgggcaag accagagccc gcagctcagg 780
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agcttcggtg aaatccaaaa aaccaagctc ctcctcttta aggaactcca gcccgataag 900
aatggccaaa ataactcatg ttgaggggaa aaaacctaaa gctgtggcca agaatcattc 960
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atctagagag cggagtgggg ggccagtcac ccggagcctt cagctggcag ctgctgctga 1140
cttgagtgag aacaagagag aggacggcag cgcaagcagg agctgaagga cttcagctac 1200
agcctccgct tggcktcccg atgctctcca ccagcggccc cgtacatcac cagggagtat 1260
aggaaggtca aagctccagc tkgcagccca gtttcagggg accatttttc aaagggtaga 1320
cactctgggc ttgcttccct tgacagcacc ttgaagttga cctgggantc agttga     1376
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<210> 276
<211> 2594
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (2198)
<223> n equals a,t,g, or c

<400> 276
gcccacgcgt ccgcccacgc ggccacgccg cgccggctct gggcactcag catcgtttcc 60
tttccctccg ctggagcagc tatggcggcg gtgaagaccc tgaaccccaa ggccgaggtg 120
gcccgagcgc aggcggcgct ggcggtcaac atcagcgcag cgcggggtct gcaggacgtg 180
ctaaggacca acctggggcc caagggcacc atgaagatgc tcgttctggg cgctggagac 240
atcaaactta ctaaagacgg caatgtgctg cttcacgaaa tgcaaattca acacccaaca 300
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tctaatgtcc taatcattgg agagctgctg aaacaggcgg atctctacat ttctgaaggc 420
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cacggagcac ggcatcctga tatgaagaaa agggtggagg atgcatacat cctcacttgt 780
aacgtgtcat tagagtatga gaaacagaa gtgaattctg cttttttta caagagtgca 840
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aatgggaaga ggagtcaact agaggcaagg gagttgagag agctgcaact gtaaagggca 2280
agaacaggca gaggtaaaaa gatgatggaa ggtgtggtga ctaagggcca cggttattgg 2340
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tatatatagt tggtctatct ctgcagtcct tgaaggtgaa gttgtgtgtt actaggctgt 2520
gttttgggat gtcagcagtg gcctgaagtg agttgtgcaa taaatgttaa gttgaaacct 2580
caaaaaaaaa aaaa   2594

<210> 277
<211> 679

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<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<400> 277
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ctgccttgtg ctcaccgact tcggcatcgc agtcttcgag atcccgcacc aggagtctcg 120
gggcagcagc cagcacatcc tctcctccct gcgctttgtc ttttgcttcc cgcatggcga 180
cctcaccgag tttggcttcc tcatgccgga gctgtgtctg gtgctcaagg tacggcacag 240
tgagaacacg ctcttcatta tctcggacgc cgccaacctg cacgagttcc acgsggacct 300
gcgctcatgc tttgcacccc agcacatggc catgctgtgt agccccatcc tctacggcag 360
ccacaccagc ctgcaggagt tcctgcgcca gctgctcacc ttctacaagg tggctggcgg 420
ctgccaggag cgcascangg gctgcttccc cgtctacctg gtctacagtg acaagcgcat 480
ggtgcagacg gccgccgggg actactcagg caacatcgag tggccagctg cacactctgt 540
tcagccgtgc ggcgytcctg ctgcgcgccc tctgargccg tcaagtccgc cgccawcccc 600
tactggctgt tgctcangcc ccagcactca aagtmatcaa agccgacttc aancccatgc 660
ccaaaccgtg gaaccaaaa                                                 679
```

```
<210> 278
<211> 1478
<212> DNA
<213> Homo sapiens

<400> 278
ggcagagggc cggccgcagc gctgagggag ccggtgccat ctgtgggggc tttgggccag 60
gggtctccgg acagcatgag cgtgggcttc atcggcgctg ccagctggc ttttgccctg 120
gccaagggct tgcacagcag caggcgtctt ggctgcccac aagataatgg ctagctcccc 180
agacatggac ctggccacag tttctgctct caggaagatg ggggtgaagt tgacacccca 240
caacaaggag acggtgcagc acagtgatgt gytcttcctg gctgtgaagc acacatcatc 300
cccttcatcc tggatgaaat aggcgccgac attgaggaca gacacattgt ggtgtcctgc 360
gcggccggcg tcaccatcag ctccattgag aagaagctgt cagcgtttcg gccagccccc 420
agggtcatcc gctgcatgac caacactcca gtcgtggtgc gggagggggc caccgtgtat 480
gccacaggca cgcacgccca ggtggaggac gggaggctca tggagcagct gctgagcagc 540
gtgggcttct gcacggaggt ggaagaggac ctgattgatg ccgtcacggg gctcagtggc 600
agcggccccg cctacgcatt cacagccctg gatgccctgg ctgatggggg tgtgaagatg 660
ggacttccaa ggcgcctggc agtccgcctc ggggcccagg ccctcctggg ggctgccaag 720
atgctgctgc actcagaaca gcacccaggc cagctcaagg acaacgtcag ctctcctggt 780
```

```
ggggccacca tccatgcctt gcatgtgctg gagagtgggg gcttccgctc cctgctcatc 840
aacgctgtgg aggcctcctg catccgcaca cgggagctgc agtccatggc tgaccaggag 900
caggtgtcac cagccgccat caagaagacc atcctggaca aggtgaagct ggactcccct 960
gcaggraccg ctctgtcgcc ttctggccac accaagctgc tcccccgcag cctggcccca 1020
gcgggcaagg attgacacgt cctgcctgac caccatcctg caccaccttc tcttctcttg 1080
tcactagggg gactaggggg tccccaaagt ggcccacttt ctgtggctct gatcagcgca 1140
ggggccagcc agggacatag ccagggaggg gccacatcac ttcccactgg aaatctctgt 1200
ggtctgcaag tgcttcccag cccagaacag gggtggattc cccaamctca acctcctttc 1260
ttctctgctc cctttcagtt ttataagttg gtttccagcc cccagtgtcc tgacttctgt 1320
ctgccacatg aggagggagg ccctgcctgt gtgggagggt ggttactgtg ggtggaatag 1380
tggaggcctt caactgatta gacaaggccc gcccacatct tggagggcat ctgccttact 1440
gattaaaatg tcaatgtaat ctaaaaaaaa aaacaaaa                        1478
```

<210> 279
<211> 2321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (483)
<223> n equals a,t,g, or c

<400> 279
```
ggcacaggtc cgagcgccgc catggctctg ctgtccgagg gcctggacga gstgcccgcc 60
gcctgcctgt cgccgtgcgg gccgcccaac ccgaccgagc tgttcagcag tcacggcgcc 120
tggctctgga ggactggtgg cgggcggccc cgaagccttc gcggccttcc tgcgacgcga 180
gcgcctggct cgtttcctga acccccgatga rgtgcacgcc attctgcgcg cggcggagag 240
gccgggagar garggcgcgg cggcggcggc ggcggccagg actcgttcgg ctcctcgcac 300
gactgctctt cgggcactac ttccccgagc agtcggacct ggagccamcg ctgttggagc 360
ttggctggcc cgccttctam cagggcgcct amcgcggcgc camgcgtgtc gagacgcact 420
tccagccccg cggcgctggc gaaggtggcc cctacggctg caaggacgct ctgngccaca 480
ctnccgctcg gcgcgagagg tgattgcagt ggtcatggac gtgttcacag acatcgacat 540
cttcagagac ctgcaagaaa tatgcaggaa acagggagtt gctgtgtata tccttctgga 600
ccaggctctc ctctctcaat ttytggatat gtgcatggwt ctgaaakttc atcctgaaca 660
ggaaaagtta atgacagttc ggactatcac aggaaatatc tactatgcaa ggtcaggaac 720
taagattatt gggaaggttc acgaaaagtt cacgttgatt gatggcatcc gcgtggcaac 780
aggctcctac agttttacat ggacggatgg caaattaaac agcagtaact tggtaattct 840
gtctggccaa gtggttgaac actttgatct ggagttccga atcctgtatg cccagtccaa 900
gcccatcagc cccaaactcc tgtctcactt ccagagcagc aacaagtttg atcacctcac 960
caaccgaaaa ccacagtcca aggagctcac cctgggcaac ctgctgcgga tgcggctggc 1020
taggctgtca agtactccca ggaaggcgga cctggaccca gagatgcccg cagagggcaa 1080
ggcagagcgc aagcccatg actgtgagtc ctctactgtt agtgaggaag actacttcag 1140
cagccacagg gacgagctcc agagcagaaa ggccattgac gctgccactc aaacagagcc 1200
aggagaggag atgccagggc tgagtgtgag tgaggtggga acacaaacca gcatcaccac 1260
agcatgtgct ggtacccaga ctgcagtcat caccaggata gcaagctctc aaaccacgat 1320
```

```
ttggtccaga tcgaccacta ctcagactga catggatgag aacattctct ttcctcgagg 1380
aactcaatct acagaagggt caccagtctc aaaaatgtct gtatcgagat cttccagttt 1440
gaagtcttcc tcctctgtgt cttcccaagg ctctgtggca agctccactg gttctcccgc 1500
ttccatcaga accactgact tccacaatcc tggctatccc aagtacctgg gcacccccca 1560
cctggaactg tacttgagtg actcacttag aaacttgaac aaagagcggc aattccactt 1620
cgctggtatc aggtcccggc tcaaccacat gctggctatg ctgtcaagga gaacactctt 1680
tactgaaaac caccttggcc ttcattctgg caatttcagc agagttaatt tgcttgctgt 1740
tagagatgta gcactttatc cttcctatca gtaactgctc cgtgttcaga ctcctggttt 1800
cttccaggct tacagtggac atcatcagct tcctgcttta aaaaatatct tatgtcccta 1860
attgcctttc ttttacctga ctttgtcacc tttgttgtct ttgaattctt taggctgcat 1920
attattttac atgctttgtt ttgtcatgta tataccaggt attggtttta tggtttaaac 1980
actatggata caggggtttg ttttgcacaa ttttaatagt catgcactac ataatgatgt 2040
tttggtcrat gacagaccac gtatatgttg gcagtctcat aagattataa tactgtattt 2100
ttactatacc ttttctrtgt ttagatacaa ataccattat gttacagttg cctacagtat 2160
tcagtgcagt aacatgatgt acaggtttgt agcctgtttt gcatttttct taggttgtat 2220
gctcttctgt tttaaaggtt tgaatcacca gcattttgt gatcaaaatc ctatttagaa 2280
aaaataaaac tactttctgt ttatctcttt agaaaaaaaa a             2321
```

```
<210> 280
<211> 1693
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<400> 280
ggcacagtgt ggagcggttg tggggcggca ctgcggaact gcgcgattgt ggttcccgcc 60
gtatttcccg ttccccatct agtaactccc atctcagccc acgtatctcc ctgagtggaa 120
atctcgggcc ccagaccagt cgattgggag gtccgccctc cccttcagcg acttggtctg 180
tgttttggca gttgccgcgn acaacagtca cttccgggaa ggggctctgc gaatctcctt 240
ccgtcggtcc gctcagaatc agctgtcctc tcagactgtg tgggtggttt ccccggccgc 300
agctccgtac gggcttggat tgctgggcct cggtgcaccc cagcctcccc cactcgggtt 360
ctgagcttga gctggcggct ctttaactct gcttcactgt tgctcttggc aacatccact 420
tccgggagcg agtgccgttt cccccgctca ccgcgggcta gggagcgtgg gattccggac 480
tgtgagcggc tgttagtgcg tcgcagctgc tggcgatccg gcgaccctcg gccggcagga 540
cccgcgggcc acgcagccgg ggccttctca acgcctcagt acctcggcgg gaccgccatg 600
gttctgctgc acgtgaagcg gggcgacgag agccagttcc tgctgcaggc gcctgggagt 660
accgagctgg aggagctcac ggtgcaggtg gcccgggtct ataatgggcg gctcaaggtg 720
cagcgcctct gctcagaaat ggaagaatta gccgaacatg gcatatttct ccctcctaat 780
atgcaaggac tgaccgatga tcagattgaa gaattgaaat tgaaggatga atggggtgaa 840
aaatgcgtac ccagcggagg tgcagtgttt aaaaaggatg atattggacg aaggaatggg 900
caagctccaa atgagaagat gaagcaagtg ttaaagaaga ctatagaaga agccaaagca 960
ataatatcta agaaacaagt ggaagccggt gtctgtgtta ccatggagat ggtgaaagat 1020
gccttggacc agcttcgagg cgcggtgatg attgtttacc ccatgggtt gccaccgtat 1080
gatcccatcc gcatggagtt tgaaaataag gaagacttgt cgggaacaca ggcagggctc 1140
aacgtcatta agaggcaga ggcgcagctg tggtgggcag ccaaggagct gagaagaacg 1200
aagaagcttt cagactacgt ggggaagaat gaaaaaacca aaattatcgc caagattcag 1260
caaaggggac agggagctcc agcccgagag cctattatta gcagtgagga gcagaagcag 1320
```

```
ctgatgctgt actatcacag aagacaagag gagctcaaga gattggaaga aaatgatgat 1380
gatgcctatt taaactcacc atgggcggat aacactgctt tgaaaagaca ttttcatgga 1440
gtgaaagaca taaagtggag accaagatga agttcaccag ctgatgacac ttccaaagag 1500
attagctcac ctttctccta ggcaattata atttaaaaaa aaaaaaaagg ccacttactg 1560
ccctctgtaa aagatgttaa catttctagt tttctttttag tgtgaatttt taaaatagca 1620
gttattcaag gttttagaac ttaataaata cctagtcaga aaaaaatgtg taaatcgttt 1680
ttgtttcagg act                                                     1693
```

<210> 281
<211> 258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<400> 281

```
ggcagagcca ggactcagta atccctgggg ggcaggctct gnagccctcg gccacacgtg 60
gctnccggca cccatggtcc cagtgccttg gaatggagac ggccagttct ggggccagat 120
gtggtgctct ggaatccagt cccatttcct tcctggccac gagctgtccc agcggcctct 180
tcagccgcat tcagccccta cttacctggg gaccccggct ggggcacgag aagcaccagg 240
ggggttaggg cccaaagg                                                258
```

<210> 282
<211> 1764
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1764)
<223> n equals a,t,g, or c

<400> 282

```
gctgtgtcct ggagctttat ttggggagtt tyayccagaa tggtgggaga aacctcccag 60
gtgccaggta ccccgcatcg tgacccttca cttggtgtct taggaagtca agctgaggga 120
tgctgagtcc tccctgctg gccctgcag ccccagccct gcttttcatc ccccacccct 180
gcaaacatgg aggagccccc tccttctcac ctcggtctcc tagccctga catggagaas 240
cctgagacaa gccacagaac ccctctttc taaaatggag acaataattt cctacctcc 300
aaggagcag agaggcctcg tggcacgtcc gtggccaggg agcccactgt cctggctggc 360
ggcgggatcg tgcrctcctc tgtctcccgg atgagaagcc ccgtttccat ggtcttgacc 420
cttcctttct cccggctgtc agaactgggt ctcttgattt tgcccctaca ttatgcctct 480
gtgggaaaaa aaaaaaaatc agaccaagaa atgagcctga aattcagtgt ttaccatggc 540
tcaaggatgc ccatctggtg tccagttgcc ttttgtattc aaatgaaaat gctttgtaca 600
```

```
actgaggagt tacagtgaag tgttaaccag gggtccaggg agcgagttga aaagatggag 660
tgagtgtatt tgcagccagg gagctgcagg gtggatttga ggggccatac cctctgagca 720
cttaaaaaag gtatttgctc caggccaggc agcaggctgt ggacaccctt gccaccactg 780
gggactgcca ctgaggactc cccgagcacg ttgttccccg tcttctccaa ggtgttgagg 840
tgagctgggg ttggccccgg cccaggcttc tgtcccaagg agaagctgcc actgacagtc 900
atcctaccgc actgctaaag agaatgttcg cagtggtggg cggcgtgcct gtgccaaccc 960
ttccagggac ccggccatgg gggaccttgg cccaaggatg cctgggggcct gccagctgtg 1020
ctgcaaargt gggggggccca caccctaaaa ctaacccagg ccccagacca ctggaggcca 1080
gggcttccct gcacgggcta aggggagttg ggatatcacc ccaaagtgac cttgccagtg 1140
agctgttcag caggtagcca ctgccctgcc atctgtgcag agccagccac cttggggggct 1200
ggggttcccg ctttgaggcc caccttccat actccccttg actcggctct ggctgaactg 1260
gggaactctc ttgtggtcag caaagcccct gccatgcagg ccaggtgcca ttgagaatta 1320
agtgctcaga gggccaggag cccagggggat gggaaagtgt gtggttttag tacgttcaaa 1380
agggacaatc gcttgcagtt ggtagatcta gcgatctagt tgggagataa tggtgtttac 1440
cccatatgaa gtattcaata gttctacttg tgaatttgta tttattttga gttatacttg 1500
acacagaatt cctttttttaa aaaaatatgt gtgtattttg gaaaaaaaat tcatagatgt 1560
taaaatttct gcatggttac cagttttttct cacaacactg aatttggtag cttttcccga 1620
aaaaatcttc acagtaattt tttgtctgta tatatttgag ggcctttttt taaaaaaaaa 1680
aaaaraaaag aaaaatataa tkgtttgatt tttgagattw aaacaaacma aaagagaggc 1740
attttcmaaa tttcagaact ttcn                                       1764
```

<210> 283
<211> 799
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (750)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (760)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (769)
<223> n equals a,t,g, or c

<400> 283

```
aattcggcac gagtcagagg ccgagtccgt cactggaagc cgagaggaga ggacagctgg 60
ttgtgggaga gttcccccgc ctcagactcc tggtttttttc caggagacac actgagctga 120
gactcacttt tctcttcctg aatttgaacc accgtttcca tcgtctcgta gtccgacgcc 180
tggggcgatg gatccgttta cggagaaact gctggagcga acccgtgcca ggcgagagaa 240
tcttcagaga aaaatggctg agaggcccac agcagctcca aggtctatga ctcatgctaa 300
gcgagctaga cagccacttt cagaagcaag taaccagcag ccctctctg gtggtgaaga 360
gaaatcttgt acaaaaccat cgccatcaaa aaaacgctgt tctgacaaca ctgaagtaga 420
agtttctaac ttggaaaata aacaaccagt tgagtcgaca tctgcaaaat cttgttctcc 480
aagtcctgtg tctcctcagg tgcagccaca agcagcagat accatcagtg attctgttgc 540
```

```
tgtcccggca tcactgctgg gcatgaggag agggctgaac tcaagattgg aagcaactgc 600
agcctyctca gttaaaacac gtatgcaaaa acttgcagag caacggcgcc gttgggataa 660
tgatgatatg acagatgaca ttcctgaaag ctcactcttc tcaccaatgc catcagagga 720
aaaggytgct ttcccttccc agacctctgn ttttcaaaan gccttcggna acttccagtt 780
ggccaaaaaa ggggcccgt                                           799
```

```
<210> 284
<211> 1489
<212> DNA
<213> Homo sapiens
```

```
<400> 284
aggtagactg tggcaatrag gcagctaagt ggttcaccaa cttcttgaaa actgaagcgt 60
atagattggt tcaatttrag acaaacatga agggaagaac atcaagaaaa cttctcccca 120
ctcttgatca gaatttccag gtggcctacc cagactactg cccgctcctg atcatgacag 180
atgcctccct ggtagatttg aataccagga tggagaagaa aatgaaaatg gagaatttca 240
ggccaaatat tgtggtgacc ggctgtgatg cttttgagga ggatacctgg gatgaactcc 300
taattggtag tgtagaagtg aaaaaggtaa tggcatgccc caggtgtatt ttgacaacgg 360
tggacccaga cactggagtc atagacagga aacagccact ggacaccctg aagagctacc 420
gcctgtktga tccttctgag agggaattgt acaagttgtc tccacttttt gggatctatt 480
attcagtgga aaaaattgga agcctgagag ttggtgaccc tgtgtatcgg atggtgtagt 540
gatgagtgat ggatccacta gggtgatatg gcttcagcaa ccaggaggga ttgactgaga 600
tcttaacaac agcagcaacg atacatcagc aaatccttat tatccagcct tcaactatct 660
ttaccctgga aaacaatctc gatttttgac ttttcaaagt tgtgtatgct ccaggttaat 720
gcaaggaaag tattagaggg gggaatatga aagtatatat ataaatttta ggtactgaag 780
gctttaaaaa taattaagat catcaaaaat gctattttga atgttatcat ggctattaca 840
cttttacttc ctgactttaa tattgatgaa taaagcaagt ttaatgratc aactaaaaag 900
ctgcaaaaat gtttttaaaa tgtgtgcctt ttattaccta tcagtctatg ttttgggaga 960
aatgggaagc aacagatcac tgtgtcctsa tgtgcaggac gcatgttacc acactcacaa 1020
atgcctaata ttggtcttta tgtggccatt gagtcctgtt gactttccac tcatgtgctt 1080
tttactctag cattatggaa tctgggctgt acttgagtat ggaaattctc ttatagactt 1140
agtttagta ctctattaca cctttactaa gccacataaa agtaatctgt ttgtgtgtaa 1200
ctgccagata taccacctgg aattccaagt aagataagga agaggatgac atttaaaaga 1260
gaatggaatt ttgagagtag gaatgcaagg aagacagcat gaacatattt ttttcagtgc 1320
aaataatttt ttcgtaacaa agaaacgaac aactttggta tgatcttaag caaaaatact 1380
cactgaaata gtatgtggat gaattcacct acttacaatt ttatggtttc tttgtaaata 1440
ataaatgtga atctcaattt tstaaaaaaa aaaaaaaaa aaaagttct         1489
```

```
<210> 285
<211> 702
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (695)
<223> n equals a,t,g, or c
```

```
<400> 285
ggcagaggct cccaaaatgg tgggattaca ggtgtgtggg ccaccgtgcc tggctgattc 60
agcatttttt atcaggcagg accaggtggc acttccacct ccagcctctg gtcctaccaa 120
```

```
tggattcatg gagtagcctg gactgtttca tagttttcta aatgtacaaa ttcttatagg 180
ctagacttag attcattaac tcaaattcaa tgcttctatc agactcagtt ttttgtaact 240
aatagatttt ttttttccact tttgttctac tccttcccta atagcttttt aaaaaaatct 300
ccccagtaga gaaacatttg gaaaagacag aaaactaaaa aggaagaaaa aagatcccta 360
ttagatacac ttcttaaata caatcacatt aacattttga gctatttcct tccagccttt 420
ttagggcaga ttttggttgg tttttacata gttgagattg tactgttcat acagttttat 480
accctttttc atttaacttt ataacttaaa tattgctcta tgttagtata agcttttcac 540
aaacattagt atagtctccc ttttataatt aatgtttgtg ggtatttctt ggcatgcatc 600
tttaattcct tatcctagcc tttgggcaca attccygtgc ttcaaaatga gagtgacggc 660
tgggcatggt gggctcccgc ctgtaaatcc cagtnacttg gg                     702
```

<210> 286
<211> 1175
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1166)
<223> n equals a,t,g, or c

<400> 286
```
ctaaagggaa caaaagctgg agctccaccg cggtggcggc cgctctagaa ctagtggatc 60
ccccgggctg caggaatgtt actatttcta catgttgtcc atgatgtgac tttcgtaaac 120
cttcaaaatt atttgggcat agtgctctat gtttaataaa ggttttata gatgtttat 180
tccatatgtc ttcacaagtc aggacccaca attacccgtg ttttgtttga acagcagtgt 240
cccatctggc ttcgacccaa caaagttcat taacctggga tgaatggggt tggcctgttg 300
gtgatttgga tgctgttctg tgatctaaaa caactcttat tgaattgtat ttactcccta 360
aacaacactt gacaggctgt tgcacagggc ttctatagat cagtgtgtta ggaatgggag 420
gcccCttcct gcctgccttc ccatattggt cccttgacat tgacaaaagc acagtgactg 480
tcagcagatt cctttacttt tgtttgtggg aggtaggaat tgttttaatg cattttaaac 540
agtgtttctg aaattggatg gctggctaat agacactgaa tcacccggag tgcttatctt 600
aaaattgcag atttagggag cctgccaatt taacagtctc atcaggtgat tcttttcaac 660
agtaatgttt gagaattact gggttaaatt gtgggaaagg gtccagattt taaaggtgct 720
ttaaggttgc cctctgccga tactgtttgt ctttctactg tttcatcccc taacttcccc 780
caaccctcaa attaaaacta gaactataga tccacatgaa cgcacgcctg agatttggcc 840
actcacctat gttttgggtg gattgcctag gaaagcaagt catatggcca ttgatagttc 900
tcatgtaatt agttttgctc accactagta cagatgaccc gtttacacgt ggcttccctc 960
ggaagccctc ctcaacagta gctggtgtga aagactaaat cagtagagtt ggaaaagctt 1020
tataaccggt gtgtcatatg cttgctattt aaagctgtgt gttggttttg tttttctgcc 1080
acattcacta gttttttaat aaatattttc caaaaatgga aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aanccccggg ggggggnccg ggcc                             1175
```

<210> 287
<211> 2873
<212> DNA

```
<213> Homo sapiens

<220>
<221> misc feature
<222> (829)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2870)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2871)
<223> n equals a,t,g, or c

<400> 287
ggcgcggcgg cggtagcagc caggcttggc ccccggcgtg gagcagacgc ggacccctcc 60
ttcctggcgg cggcggcgcg ggctcagagc ccggcaacsg gcgggcgggc agaatgagtc 120
tgcaggtctt aaacgacaaa aatgtcagca atgaaaaaaa tacagaaaat tgcgacttcc 180
tgttttcgcc accagaagtt accggaagat cgtctgttct tcgtgtgtca cagaaagaaa 240
atgtgccacc caagaacctg gccaaagcta tgaaggtgac ttttcagaca cctctgcggg 300
atccacagac gcacaggatt ctaagtccta gcatggccag caaacttgag gctcctttca 360
ctcaggatga caccccttgga ctggaaaact cacacccggt ctggacacag aaagagaacc 420
aacagctcat caaggaagtg gatgccaaaa ctactcatgg aattctacag aaaccagtgg 480
aggctgacac cgacctcctg ggggatgcaa gcccagcctt tgggagtggc agctccagcg 540
agtctggccc aggtgccctg gctgacctgg actgctcaag ctcttcccag agcccaggaa 600
gttctgagaa ccaaatggtg tctccaggaa aagtgtctgg cagccctgag caagccgtgg 660
aggaaaacct tagttcctat tccttagaca gaagagtgac acccgcctct gagaccctag 720
aagacccttg caggacagag tcccagcaca aagcggagay tccgcacgga gccgaggaag 780
aatgcaaagc ggagactccg cacggagccg aggaggaatg ccggcacgnt ggggtctgtg 840
ctcccgcagc agtggccact tcgcctcctg gtgcaatccc taaggaagcc tgcggaggag 900
cacccctgca gggtctgcct ggcgaacctg ggctgccctg cgggtgtggg caccccgtg 960
ccagcagatg gcactcagac ccttacctgt gcacacacct ctgctcctga gagcacagcc 1020
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gcaggccaaa tggccagctc ctcgaggagc ggacctgtaa aactagaatt tgatgtatct 1140
gatggcgcca ccagcaaaag ggcaccccca caaggagac tgggagagag gtccggcctc 1200
aagcctccct tgaggaaagc agcagtgagg cagcaaaagg ccccgcagag gtggaggagg 1260
acgacggtag gagcggagag gagaggaccc ccccatgcca gcttctcggg gctcttacca 1320
cctcgactgg gacaaaatgg atgacccaaa cttcatcccg ttcggaggtg acaccaagtc 1380
tggttgcagt gaggcccagc ccccagaaag ccctgagacc aggctgggcc agccagcgct 1440
gaacagttgc atgctgggcc tgccacggag gagccaggtc cctgtctgag ccagcagctg 1500
cattcagcct cagcggagga cacgcctgtg gtgcagttgg cagccgagac cccaacagca 1560
gagagcaagg agagagcctt gaactctgcc agcacctcgc ttcccacaag ctgtccaggc 1620
agtgagccag tgcccaccca tcagcagggg cagcctgcct tggagctgaa agaggagagc 1680
ttcagagacc ccgctgaggt tctaggcacg ggcgcggagg tggattacct ggagcagttt 1740
ggaacttcct cgtttaagga gtcggccttg aggaagcagt ccttatacct caagttygac 1800
cccctcctga gggacagtcc tggtagacca gtgcccgtgg ccaccgagac cagcagcatg 1860
cacggtgcaa atgagactcc ctcaggacgt ccgcgggaag ccaagcttgt ggagttcgat 1920
ttcttgggag cactggacat tcctgtgcca ggcccacccc caggtgttcc cgcgcctggg 1980
```

```
ggcccacccc tgtccaccgg rcctatagtg gacctgctcc agtacagcca gaaggacctg 2040
gatgcagtgg taaaggcgac acaggaggag aaccgggagc tgaggagcag gtgtgaggag 2100
ctccacggga agaacctgga actggggaag atcatggaca ggttcgaaga ggttgtgtac 2160
caggccatgg aggaagttca gaagcagaag gaactttcca aagctgaaat ccagaaagtt 2220
ctaaaagaaa aagaccaact taccacagat ctgaactcca tggagaagtc cttctccgac 2280
ctcttcaagc gttttgagaa acagaaagag gtgatcgagg gctaccgcaa gaacgargag 2340
tcactgaaga agtgcgtgga ggattacctg gcaaggatca cccaggaggg ccagaggtac 2400
caagccctga aggcccacgc ggaggagaag ctgcagctgg caaacgagga gatcgcccag 2460
gtccggagca aggcccaggc ggaagcgttg gccctccagg ccagcctgag gaaggagcag 2520
atgcgcatcc agtcgctgga aagacagtg gagcagaaga ctaaagagaa cgaggagctg 2580
accaggatct gcgacgacct catctccaag atggagaaga tctgacctcc acggagccgc 2640
tgtccccgcc cccctgctcc cgtctgtctg tcctgtctga ttctcttagg tgtcatgttc 2700
tttttctgt cttgtcttca actttttta aaactagatt gctttgaaaa catgactcaa 2760
taaaagtttc ctttcaattt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan ngg         2873
```

```
<210> 288
<211> 2104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1323)
<223> n equals a,t,g, or c


<400> 288
cggcgatctc agcaaatact tcttgagggc ctactctgcg ccangtgttg gggttagaaa 60
ggagctggtc gctgtcggct aagcaagatt ggagctactc gtcgtccacc tccagctcgc 120
gtaagggtgg ctgtgcgact gcggccattt gtggatggaa cagcgggagc aagtgatccc 180
ccctgtgtgc ggggcatgga cagctgctct ctagagattg ctaactggag gaaccaccag 240
gagactctca aataccagtt tgatgccttc tatggggaga rgagtactca gcaggacatc 300
tatgcaggtt cagtgcagcc catcctaagg cacttgctgg aagggcagaa tgccagtgtg 360
cttgcctatg gacccacagg agctgggaag acgcacacaa tgctgggcag cccagagcaa 420
cctggggtga tcccgcgggc tctcatggac ctcctgcagc tcacaaggga ggagggtgcc 480
gagggccggc catgggncct ttctgtcacc atgtcttacc tagagatcta ccaggagaag 540
gtattagacc tcctggaccc tgcttcggga gacctggtaa tccgagaaga ctgccggggg 600
aatatcctga ttccgggtct ctcccagaag cccatcagta gctttgctga ttttgagcgg 660
cacttcctgc cagccagtcg aaatcggact gtaggagcca cccggctcaa ccagcgctcc 720
tcccgcagtc atgctgtgct cctggtcaag gtggaccagc gggaacgttt ggccccattt 780
cgccagcgag agggaaaact ctacctgatt gacttggctg ggtcagagga caaccggcgc 840
```

```
acaggcaaca agggccttcg gctaaaagag agtggagcca tcaacacctc cctgtttgtc 900
ctgggcaaag tggtagatgc gctgaatcag ggcctccctc gtgtacctta tcgggacagc 960
aagctcactc gcctattgca ggactctctg ggtggctcag cccacagtat ccttattgcc 1020
aacattgccc ctgagagacg cttctaccta gacacagtct ccgcactcaa ctttgctgcc 1080
aggtccaagg aggtgatcaa tcggcctttt accaatgaga gcctgcagcc tcatgccttg 1140
ggacctgtta agctgtctca gaaagaattg cttggtccac cagaggcaaa gagagcccga 1200
ggccctgagg aagaggagat ygggagccct gagcccatgg cagctccagc ctctgcctcc 1260
cagaaactca gccccctaca gaagctaagc agcatggacc cggccatgct ggagcgcctc 1320
ctncagcttg gaccgtctgc ttgcctccca ggggagccar ggggcccctc tgttgagtac 1380
cccaaagcga gagcggatgg tgctaatgaa gacagtagaa gagaaggacc tagagattga 1440
raggcttaar acgargcama aagaactgga ggccaagatg ttggcccaga aggctgagga 1500
aaaggagaac cattgtccca caatgctccg gccccctttca catcgcacag tcacaggggc 1560
aaagcccctg aaaaaggctg tggtgatgcc cctacagcta attcaggagc aggcagcatc 1620
cccaaatgcc gagatccaca tcctgaagaa taaaggccgg aagagaaagc tggagtccct 1680
ggatgcccta gagcctgagg agaaggctga ggactgctgg gagctacaga tcagcccgga 1740
gctactggct catgggcgcc aaaaaatact ggatctgctg aacgaaggct cagcccgaga 1800
tctccgcagt cttcagcgca ttggcccgaa gaaggcccag ctaatcgtgg gctggcggga 1860
gctccacggc ccccttcagcc aggtggagga cctggaacgc gtggagggca taacgggggaa 1920
acagatggag tccttcctga aggcaaacat cctgggtctc gccgccggcc agcgctgtgg 1980
cgcctcctga ccgtcgtctc ctcactccgc ctttttcaaat ttttgtataa ccccgtgttg 2040
tgtaaataca gttttttgctc cggtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2100
aaaa                                                            2104
```

```
<210> 289
<211> 1251
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1215)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1231)
<223> n equals a,t,g, or c

<400> 289
ggcacgaggc cggcttgctt tcccctgcgg tcgtccagac tattgggckc tagcgagacg 60
aactattggt acggggctag agaggaaggc tttgggattg ccggggagca gcgagcgacc 120
```

```
gacttccgtt tccagttacc aaggcacgag gatccggtgt tccaacccag ggggaaaaat 180
gcggcctttg actgaagagg agacccgtgt catgtttgag aagatagcga aatacattgg 240
ggagaatctt caactgctgg tggaccggcc cgatggcacc tactgtttcc gtctgcacaa 300
cgaccgggtg tactatgtga gtgagaagat tatgaagctg gccgccaata tttccgggga 360
caagctggtg tcgctgggga cctgctttgg aaaattcact aaaacccaca agtttcggtt 420
gcacgtcaca gctctggatt accttgcacc ttatgccaag tataaagttt ggataaagcc 480
tggtgcagag cagtccttcc tgtatgggaa ccatgtgttg aaatctggtc tgggtcgaat 540
cactgaaaat acttctcagt accagggcgt ggtggtgtac tccatggcag acatcccttt 600
gggttttggg gtggcagcca aatctacaca agactgcaga aaagtagacc ccatggcgat 660
tgtggtattt catcaagcag acattgggga atatgtgcgg catgaagaga cgttgactta 720
aaacgaagcc attccaagga cagacggctg tatggaaagg ccgagctttg tttcctgtgt 780
ttgtgtggac tccaccatca tgttgaattt tgtcaacact ctggcctctt cagggacttc 840
ttatttactg tactctctat cactgacaaa tgcaggctgg attcttatta tatacagaga 900
tggctcaaaa atggggtttc agatctttgt gacgaaatag aatactgttt catatttgaa 960
tcagagggct tcttgttctg agaaataggt tcaaaatcat tggaaccagg aacaagaata 1020
gcttattgtt atctgtgata acactgtttt ctaaacacaa ggattttctt ttttattaat 1080
atgcaacata gacattgcca taacagaata ataaaccaca tgtggggttt taaaaatgaa 1140
atttggctaa taggagcaat tcastatttt tctatacagt aattggtgtg tggnatagar 1200
gaaaacgggt ncaancccct ttgcactaca ntwttttgcc tgatgagcca t          1251
```

```
<210> 290
<211> 1591
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (768)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1538)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1560)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1562)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1568)
<223> n equals a,t,g, or c

<400> 290
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gtattttgcg atgttaaagg aaattatgtc gtgatgacgt tatttggtgt ggatggtaag 60
cggatggaaa aatcaatcaa accaccacaa agtggttatt tatgtgtcgt gagtgatgtc 120
ttgtttacat tatgttctag actggccccc tgaatctcca dacaaccaat atcacttaaa 180
taagtgatag tcttaatact agttttaga ctagtcattg gagaacagat gattgatgtc 240
ttagggccgg agaaacgcag acggcgtacc acacaggaaa agatcgcaat tgttcagcag 300
agctttgaac cggggatgac ggtctccctc gttgcccggc aacatggtgt agcagccagc 360
cagttatttc tctggcgtaa gcaataccag gaaggaagtc ttactgctgt cgccgccgga 420
gaacaggttg ttcctgcctc tgaacttctg ccgccatgaa gcagattaaa gaactccagc 480
gcctgctcgg caagaaaacg atggaaaatg aactcctcaa agaagccgtt gaatatggac 540
gggcaaaaaa gtggatagcg cacgcgccct tattgcccgg ggatggggag taagcttagt 600
cagccgttgt ctccgggtgt cgcgtgcgca gttgcacgtc attctcagac gaaccgatga 660
ctggatggat ggccgccgca gtcgtcacac tgatgatacg gatgtgcttc tccgtataca 720
ccatgttatc ggagagctgc caacgtatgg ttatcgtcgg gtatgggncg ctgcttcgca 780
gacaggcaga acttgatggt atgcctgcga tcaatgccaa acgtgtttac cggatcatgc 840
gccagaatgc gctgttgctt gagcgaaaac ctgctgtacc gccatcgaaa cgggcacata 900
caggcagagt ggccgtgaaa gaaagcaatc agcgatggtg ctctgacggg ttcgagttct 960
gctgtgataa cggagagaga ctgcgtgtca cgttcgcgct ggactgctgt gatcgtgagg 1020
cactgcactg ggcggtcact accggcggct tcaacagtga aacagtacag gacgtcatgc 1080
tgggagcggt ggaacgccgc ttcggcaacg atcttccgtc gtctccagtg gagtggctga 1140
cggataatgg ttcatgctac cgggctaatg aaacacgcca gttcgcccgg atgttgggac 1200
ttgaaccgaa gaacacggcg gtgcggagtc cggagagtaa cggaatagca gagagcttcg 1260
tgaaaacgat aaagcgtgac tacatcagta tcatgcccaa accagacggg ttaacggcag 1320
caaagaacct tgcagaggcg ttcgagcatt ataacgawtg gcatccgcat agtgcgctgg 1380
gttatcgctc gccacgggaa tatctgcggc acgggcttgt aatgggttaa gtgataacag 1440
atgtctggaa atataggggc aaatccaagg gttgtgttat ccatactttc aggttggctg 1500
attcgcagca gaccattctt tccagattca tcttatgntc gatatttcac caaattaagn 1560
cntttctnaa gaggcggccc gtacccattc g                                 1591
```

<210> 291
<211> 2386
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<400> 291
```
ctctgcctgt atgcttgact tgacttgact tgcacttatt aaataacttt gtcccagaga 60
gaaagagaga gtgggcagac atcgaagcca aacagcagta tcccggaagc actcatgcaa 120
ctttggtggc ggccactcag ttttctctgc cagtgtckgg tgattttaca acgagatgct 180
gctctccata gggatgctca tgctgtcagc cacacaagtc tacaccatct tgactgtcca 240
gctctttgca ttcttaaacc tactgcctgt agaagcagac attttagcat ataactttga 300
aaatgcatct cagacatttg atgacctccc tgcaagattt ggttatagac ttccagctga 360
aggtttaaag ggttttttga ttaactcaaa accagagaat gcctgtgaac ccatagtgcc 420
tccaccagta aaagacaatt catctggnca ctttcatcgt gttaattaga agacttgatt 480
gtaattttga tataaaggtt ttaaatgcac agagagcagg atacaaggca gccatagttc 540
acaatgttga ttctgatgac ctcattagca tgggatccaa cgacattgag gtactaaaga 600
aaattgacat tccatctgtc tttattggtg aatcatcagc taattctctg aaagatgaat 660
tcacatatga aaaagggggc caccttatct tagttccaga atttagtctt cctttggaat 720
```

```
actacctaat tcccttcctt atcatagtgg gcatctgtct catcttgata gtcattttca 780
tgatcacaaa atttgtccag gatagacata gagctagaag aaacagactt cgtaaagatc 840
aacttaagaa acttcctgta cataaaattca agaaaggaga tgagtatgat gtatgtgcca 900
tttgtttgga tgagtatgaa gatggagaca aactcagaat ccttccctgt tcccatgctt 960
atcaytgcaa gtgtgtagac ccttggctaa ctaaaaccaa aaaaacctgt ccagtgtgca 1020
agcaaaaagt tgttccttct caaggcgatt cagactctga cacagacagt agtcaagaag 1080
aaaatgaagt gacagaacat accccttac tgagacctttt agcttctgtc agtgcccagt 1140
catttggggc tttatcggaa tcccgctcac atcagaacat gacagaatct tcagactatg 1200
aggaagacga caatgaagat actgacagta gtgatgcaga aaatgaaatt aatgaacatg 1260
atgtcgtggt ccagttgcag cctaatggtg aacgggatta caacatagca aatactgttt 1320
gactttcaga agatgattgg tttatttccc tttaaaatga ttaggtatat actgtaattt 1380
gatttttttgc tcccttcaaa gattctgtta gaaataactt attttttagt attctacagt 1440
ttaatcaaat tactgaaaca ggactttttga tctggtattt atctgccaag aatatacttc 1500
attcactaat aatagactgg tgctgtaact caagcatcaa ttcagctctt cttttggaat 1560
gaaagtatag ccaaaacata aaaaaaaaaa aatcctcagt atagcttgca attaagacct 1620
agatcacagt atttaagtgt tttgcgtttt atacatgagg tcagtgctac agccacctag 1680
catgaactaa cccagcttcc acctccataa agttacctag agttgttgag ttggaatatg 1740
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cctcctatca gcacaaagaa actcaaagct gttttttccc tttctgttcc aaagcagtct 1860
tatcctgaca ggagcggtct atactagtgc agattcaac acttttttttt aacgttttaa 1920
ttactatagt gttatgtaga gatttgattg agcagctaat gtttctgaac tttacttact 1980
aattttcagt gtccttaagg gttctgtagt gttatcaaag caaaaagaaa atgctgcata 2040
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cttatgctaa ttagccctgc taaactatgt acagaggaaa ctgttcaagt attggatttg 2160
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gctaaattat acatcattgt aactatgtag aaagtgtaga ctaatgtata atcaaaatgc 2280
taaggatttt tatatggcct tgtatgaggg gagtttgaat gttaataaac atgttttcca 2340
ctttaagatc cagtaaatgt ctgttctact gtagtattac ttaaaa        2386
```

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<210> 292
<211> 983
<212> DNA
<213> Homo sapiens

<400> 292
aatcaacata aggaatatga caagacccca gtaggtaacc ctgagtgctc aggtccgagc 60
tgtggtctct tttacggctt catgaaagga ccgtgccctc acggagggga ccacggcttg 120
gcttgtgggg tcttaggtga tggctgcctt ctttcttcat caccacaccc agcttcttgc 180
tggcacttag gggaagagag cagcaaatga gagatttacc ttttatctcc cagcgagcga 240
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tgttgtttgt ttttctttca attggaattc tgtatttaag atgttatgtc agctgacaca 360
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accggcctca gaagtgtccc tcttgcttcg tctcttgttc gcttgctttg taaatacttt 480
ggtcccaagc tgagacaatt gctgtgtaaa acgtgaagag tcaatcccaa agggtgttat 540
ttgtcagaag aacttgccgt gtgccttcac cgaagcagtc aagtctgcag ttggattttt 600
ctcactggtg aatgacaaga aacagggata attttgcact gcggagatat tacgggagtt 660
gtctatatga ttatatatag tacctgattc tttgaacata ttattgaact ccaaaatgaa 720
ttcgacctcc attcaggctt cctgaaatct ctgaagttgc tgaaatttgt atattatttt 780
ccttttccaa tgcaagatct gctggtgacg ggaaatgact gtctggtttt attatggttt 840
ataaattaat aaatgggcta tttaattctg tatawaaatt tacagcaagt acgtacactg 900
gaatgaatga ggcaatcacg ttacaccaaa tcagcagatc aaaagacaaa cacatatttc 960
```

```
tgagacttga aggtccagtc gac                                        983

<210> 293
<211> 2655
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2595)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2611)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2641)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2651)
<223> n equals a,t,g, or c

<400> 293
ctttatagac aggactacaa tcccaagcca aaaccttcaa atgaaattac acgagagtat 60
atacccaaaa ttggcatgac tacttataaa atagtgcctc ccaaatcctt ggaaatatcg 120
aaagactggc aatcagaaac catagagtat aaagatgatc aggacatgca tgctttaggg 180
aaaaagcaca ctcatgagaa tgtgaaagaa actgccatcc aaacagaaga ttctgctatt 240
tctgaaagcc cagaagagcc actgccaaac cttaaaccga agcctaacct gagaacagag 300
catcaagtgc ccagttctgt gagctcacct gatgatgcca tggttagtcc tctgaaacct 360
gctcccaaaa tgacaagaga cactggcaca gctccttttg caccaaattt ggaagaaata 420
aacaatattt tggaatcaaa atttaaatct cgggcttcaa atgcccaggc caaacccagc 480
tctttttttt tgcagatgca gaagagagta tcgggtcact atgtgacatc tgcagctgcc 540
aagagtgtcc atgctgcccc taatcctgct ccaaaagaac tgacaaataa agaggcagaa 600
agggatatgc tgccttctcc ggagcagact ctttctccct taagtaaaat gcctcactct 660
gttccacaac cccttgttga aaaaactgat gatgatgtca tcggtcaggc tcctgctgaa 720
gcctcccctc ctcccatagc tccaaaacct gtgacaattc ctgctagtca ggtatccaca 780
caaaatctga agactttgaa aacttttggt gccccacgac catactcaag ttctggtcct 840
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tcacctagtg ccagtgcatt ggtccaacct ccagccaaca cagaggaagg gaagactcat 960
tctgtaaata aatttgtgga catcccacag cttggtgtgt ctgataagga aaataactct 1020
gcacataatg aacagaattc ccaaatacca actccaactg atggcccatc attcactgtt 1080
atgagacaaa gttctttaac attccaaagc tctgacccag aacagatgcg acagagtttg 1140
ctgactgcaa tccgttcggg agaggctgct gccaaattga aaagggttac cattccatca 1200
aatacaatat ctgtgaatgg aaggtcaaga ctcagccatt ccatgtcccc tgatgcccag 1260
gacggccatt aaatgttacc ctgccacacc actgcacttc acttccactt cagaccaact 1320
tcatactaat ggaacatttt ggcaaatgta tattcagatg tacactaata tattatctat 1380
```

```
taaaatatta gaatttgtgt tgtggctttt aatgccagaa gaaaagttac cagaatttat 1440
aatttatagt aatttttttga tcttttttttt gccttaagag ttgaatatgc tgctttagaa 1500
ctttaaaaca aggtgtaaat gattttcatt ttttacaaat gaaaaataat tcctttgtat 1560
tgatttcact taccagcaca ttctctacaa tggtgactta gacaaaagta taagattcat 1620
agactttata tttgtatgac atacaactag gacaaacata gatatgacat ttgctgcctc 1680
agtgtagcaa ttggaaatat ttataagtta tatgaaagcc tgttttgggc tgaaagaatg 1740
atttagaaaa ctagtgatac caaataagta tattcagttc aataattatt ttcaatgatg 1800
aatcacttag tgtgaaagac ttgccttgtg tattctttat gtaattacaa atcactgtca 1860
attttatggg aagctcatag tattttaata ttttattaac atggaactct tgttttttta 1920
atctttagaa cttaaattct acaagaattt taaatatttt ctgtatataa ttatgacatt 1980
gtcacacaga aattacacat tttatgtgcc agaagcctta aacatctttc tgtgaaaatg 2040
ctgatatatt gtgacagtta tttcacattt gatatgtaga gaggaatagg ggttagttta 2100
tgtttatatt gaaaaacttt aaagactatt tggaagttcc agaaattctg gttttaattc 2160
aagtaaaatg ataaaatagt cattatatag ttcagatgct aatattctaa gtaataatat 2220
atatttacat tgaagctaaa actgttaagc aaaacaatgc ccatttgtcg gcttacagct 2280
cttccggagt ctagagcctg ttggtgttct gtccctactt taagaattta attgctcact 2340
tattctgaaa gctttgttca aacaagatga tattaaattt gttttcacta aaactaaaaa 2400
aaaaaaaaaa gggcggccgc tctagaggat ccctcgaggg gcccaagctt acgcgtgcat 2460
gcgacgtcat agctctctcc ctatagtgag tcgtattata agctagcttg ggatctttgt 2520
gaaggaactt acttctgtgg tgtgacataa ttggacaaac tacctacaga gatttaaagc 2580
tctaaggtaa atatnaaatt tttaagttgt ntaatgtgtt aaactaactg catatgcttg 2640
ntgcttgaaa ntttg                                                   2655
```

<210> 294
<211> 1738
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (854)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1679)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1693)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1717)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1729)

<223> n equals a,t,g, or c

<400> 294
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ggtggagcaa agaaacctgc cctggaaatt tgaacatata ggcattgggc ttctgtctct   60
actgctgara gatgaccgag tgttgcctct tcgtgccata cggttttttg ttgaraatct  120
caaccatgat gcaattgtag ttcgaaagat ggctatctca gctgttgctg gtatccttaa  180
acagctaaaa agaaccacaa aaagctgacc attaacccct gtgaaatcag tggatgccct  240
aaacccaccc aaattattgc tggtgatagg cctgataatc attggttgca ttatgacagc  300
aaaactatac caagaactaa aaaagaatgg gagtcaagtt gctttgtgga aaaaactcac  360
tggggatact acacctggcc aaagaatatg gttgtttatg ctggtgtgga agagcagcct  420
aagcttggca gaagcaggga ggatatgaca gaggcagaac agattatatt tgatcatttt  480
tctgatccta aatttgttga gcagttaatt acttttctat cattagaaga cagaaaagga  540
aaagataagt ttaatccacg acgttttttgy ctctttaagg gtatattcag gaattttgat  600
gatgccttcc tgccagttct gaagccccat ttagaacatt tggttgcaga ttcacatgaa  660
agcacccagc gatgtgttgc agaaattata gctggtttaa tcagaggttc taagcactgg  720
acatttgaaa aggtggagaa gctttgggag cttctgtgcc ctctgcttag aacagcactg  780
tccaatatta ccgtagaaac ttataatgac tggggagctt gtatagcaac atcctgtgaa  840
agcagagatc cccnggaaac ttcactggct ttttgaactg ctgttggaat caccattgag  900
tggtgaagga ggatcctttg tagatgcatg tcgactttat gtactacaag gtggccttgc  960
ccagcaagaa tggagagtgc ctgaactatt gcacagacta ctgaagtact tggaacccaa 1020
actcacccag gtttacaaaa atgtcagaga aagaatagga agtgtgctga cctacatatt 1080
catgatagat gtatctttgc caaataccac accaaccata tcgcctcatg tccctgagtt 1140
tactgctcga attctggaga aattgaaacc tctcatggat gtggatgaag aaattcagaa 1200
ccatgttatg gaagaaaatg gaattggtga agaagatgag cgaactcagg gcattaaact 1260
cttgaaaacc atattgaaat ggctgatggc aagtgcagga agatcctttt ctacagcagt 1320
tacagaacaa cttcagcttc tacctttgtt tttcaagatt gccccagtgg aaaatgacaa 1380
tagctacgat gaactgaaaa gagatgcaaa gttatgttta tcattaatgt ctcagggggtt 1440
gctttaccct catcaagtgc ctttggtact tcaggtgcta aaacaaacag caagaagcag 1500
ttcttggcat gcacgataca cagtactgac ctacctccag accatggtat tttataacct 1560
ctttatttcc taaacaatga agatgcagtt aaaggatatc aggtgggctg ggttataagt 1620
cttttgggag ggacgaacca actgggaggg ttccggagaa atgggctggc ctaacttanc 1680
cttaagccgg gtntggctaa acagtggtaa actttttncct taacccatng ggaccagt   1738
```

<210> 295
<211> 1020
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)

<223> n equals a,t,g, or c

<400> 295

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ccggnccggc attcccgggt cgacccacgc ntccggngcg gtggccctgt atttcatcga 60
taagctggca ctgagagcag gaaatgagaa ggaggacggt gaggcggccg acaccgtggg 120
ctgctgttcc ctccgsgtgg agcacgtcca gctgcacccg gaggccgatg gctgccaaca 180
cgtggtggaa tttgacttcc tggggaagga ctgcatccgc tactacaaca gagtgccggt 240
ggagaagccg gtgtacaaga acttacagct ctttatggag aacaaggacc cccgggacga 300
cctcttcgac aggctgacca cgaccagcct gaacaagcac ctccaggagc tgatggacgg 360
gctgacggcc aaggtgttcc ggacctacaa cgcctccatc actctgcagg agcagctgcg 420
ggccctgacg cgcgccgagg acagcatagc agctaagatc ttatcctaca accgagccaa 480
ccgagtcgtg gccattctct gcaaccatca gcgagcaacc cccagtacgt tcgagaagtc 540
gatgcagaat ctccagacga agatccaggc aaagaaggag caggtggctg aggccagggc 600
agagctgagg agggcgaggg ctgagcacaa agcccaaggg gatggcaagt ccaggagtgt 660
cctggagaag aagaggyggc tcctggagaa gctgcaggag cagctggcgc agctgagtgt 720
gcaggccacg gacaaggagg agaacaagca ggtggccctg ggcacgtcca agctcaacta 780
cctggacccc aggatcagca ttgcctggtg caagcggttc agggtgccag tggagaagat 840
ctacagcaaa acacagcggg agaggttcgc ctgggctctc gccatggcag gagaagactt 900
tgaattctaa cgacgagccg tgttgaaact tcttttgtat gtgtgtgtgt tttttttcact 960
attaaagcag tactggggaa ttttgtacaa waaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
```

<210> 296
<211> 684
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (675)
<223> n equals a,t,g, or c

<400> 296

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tcgacccacg cgtccgaatt ttttttctcag aatagcaata gcttatccaa agaaagctag 60
tgtacatctt ccaaagcttt taaaataaaa aagaggagga gttacacttg cagaatgtat 120
atcttctggg atgcttctcc ctactccact ggacactgtt tgaaagtttg tagtttataa 180
tattcttacc taggctgtgt tggtcagctt agaatatcta agtgatagga taaaactaaa 240
gctgagtggc aaactgccag tctatatact gcatttagtc tataggctgt tttgtttggc 300
ccacaaagca ttttattatt taagtttatg ccaacattta agaatcaaga atttcccaga 360
cattcagatt tctgacttca attgaaaatc tgacagtata aaccctatta tattcctgca 420
tggcataaaa tcttcagttg ctgaatggtg atatccactt ttagaaagag tactctaccc 480
tgttctgcat tcatacaacc taagccaacc cgcccttcac catcccactt ctctttcagg 540
ttatctgctt aggctggtag gcatttgtgt ttataaacct tgaactcaag ctgctagatg 600
gtcagttgca ttgtgaactg aactatctga atgattttttc attgtaaata tatagctatn 660
ggaccacttt aaatnccct ttct                                          684
```

<210> 297

<211> 1838
<212> DNA
<213> Homo sapiens

<400> 297
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ccggcgtggg tccgggcaag aaccgcttgt rgtttggttt aaattctgca cgggaggacc 60
ttctgagttt acctgttggg ctcctggctg cgcaggcaca gcagctacac agaagagatg 120
ggagaagagg ctaatgatga caagaagcca accactaaat ttgaactaga gcgagaaaca 180
gaacttcgct ttgaggtgga ggcatctcag tcagttcagt tggagttgtt gactggcatg 240
gcagagatct ttggcacaga gctgacccga aacaagaaat tcacctttga tgctggtgcc 300
aaggtggctg ttttcacttg gcatggctgt tctgtgcaac tgagcggccg cactgaggtg 360
gcttatgtct ccaaggacac tcctatgttg ctttacctca acactcacac agccttggaa 420
cagatgcgga ggcaagcgga aaaggaagaa gagcgaggtc cccgagtgat ggtagtgggc 480
cccactgatg tgggcaagtc tacagtgtgt cgccttctgc tcaactacgc agtgcgtttg 540
ggccgccgtc ccacttatgt ggagctggat gtgggccagg gttctgtgtc catccctggt 600
accatggggg ccctctacat cgagcggcct gcagatgtcg aagagggttt ctctatccag 660
gcccctctgg tgtatcattt·tggttccacc actcctggca ctaacatcaa gctttataat 720
aagattacat ctcgtttagc agatgtgttc aaccaaaggt gtgaggtgaa ccgaaggcat 780
ctgtgagtgg ctgtgtcatt aacacctgtg gctgggtcaa gggctctggt taccaggctc 840
tggtgcatgc agcctcagct tttgaggtgg atgtcgttgt tgttctggat caagaacgac 900
tgtacaatga actgaaacgg gactcccccca ctttgtacgc actgtgctgc tccctaaatc 960
tgggggtgtg gtkgagcgct ccaaggactt ccggcgggaa tgtagggatg agcgtatccg 1020
tgagtatttt tatggattcc gaggctgttt ctatccccat gccttcaatg tcaaattttc 1080
agatgtgaaa atctacaaag ttggggcacc caccatccca gactcctgtt tacctttggg 1140
catgtctcaa gaggataatc agctcaagct agtacctgtc actcctgggc gagatatggt 1200
gcaccaccta ctgagtgtta gcactgmcga gggtacagag gagaacctgt ccgagacaag 1260
tgtagctggc ttcattgtgg tgaccagtgt ggacctggag catcaggtgt ttactgttct 1320
gtctccagcc cctcgcccac tgcctaagaa cttccttctc atcatggata tccggttcat 1380
ggatctgaag tagagatcag caggaagcct tgctgcctgg acatagaga tcatctggcc 1440
accccctagag gcagatgggc tgagataaaa gactgttggg gccacctgac cagtaaactg 1500
tggactagta gaaagttcat attctacctc taaaaacagg tagtggtaac ctgactcttc 1560
taatcttgaa ccaaaaggaa aaccatgaga ctgtaattgg tttcttagac cacctaagat 1620
gccactttga attctctaag accctggaga attgcatttc tttcactgtg ctactatgtg 1680
gttttaaaaa aatcaatgct ttatattcca tatgtggttc ttacccattt atctaggatg 1740
aaagtgtgaa ttagagggac tccttccaat aaagttcaaa cttaaaaaaa atcattttaa 1800
taaatatttt tgccatatca taaaaaaaaa aaaaaaa                     1838
```

<210> 298
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1609)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1635)
<223> n equals a,t,g, or c

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<400> 298
gcggaagtgc ttcgcggcgg aggcccgggc aactctttg aatggaatcg ggctgattca 60
tcgccggttt gcagactgag ccgcgtcggg tgtgcgccgc tgctgctgtt gcctctgtct 120
tcgcgtcacc acagaggcaa gacaagggtc catatcgcgg catccggctc ccgcccgtct 180
tcaggagaga aagaaaaaat aaaatatact tggggaagtt gtacctgcca gaattagcaa 240
gagctttctt taagaagaca tttgtcaaac tcaacaaatt gaaggttaac accttaagag 300
ttgtagttac tgaccagaaa tatggacaga cttcttagac ttggaggagg tatgcctgga 360
ctgggccagg ggccacctac agatgctcct gcagtggaca cagcagaaca agtctatatc 420
tcttccctgg cactgttaaa aatgttaaaa catggccgtg ctggagttcc aatggaagtt 480
atgggtttga tgcttggaga atttgttgat gattataccg tcagagtgat tgatgtgttt 540
gctatgccac agtcaggaac aggtgtcagt gtggaggcag ttgatccagt gttccaagct 600
aaaatgttgg atatgttgaa gcagacagga aggccggaga tggttgttgg ttggtatcac 660
agtcaccctg gctttggttg ttggctttct ggtgtggata tcaacactca gcagagcttt 720
gaagccttgt cggagagagc tgtggcagtg gttgtggatc ccattcagag tgtaaaagga 780
aaggttgtta ttgatgcctt cagattgatc aatgctaata tgatggtctt aggacatgaa 840
ccaagacaaa caacttcgaa tctgggtcac ttaaacaagc catctatcca ggcattaatt 900
catggactaa acagacatta ttactccatt actattaact atcggaaaaa tgaactggaa 960
cagaagatgt tgctaaattt gcataagaag agttggatgg aaggtttgac acttcaggac 1020
tacagtgaac attgtaaaca caatgaatca gtggtaaaag agatgttgga attagccaag 1080
aattacaata aggctgtaga agaagaagat aagatgacac ctgaacagct ggcaataaag 1140
aatgttggca agcaggaccc caaacgtcat ttggaggaac atgtggatgt acttatgacc 1200
tcaaatattg tccagtgttt agcagctatg ttggatactg tcgtatttaa ataaagcaac 1260
gaaaaacgct attaatgatg ccttcagtgt atattcctct gttgttccta atgctcaaaa 1320
tcaagggacc tctgaaggtg tacttggcta aatgtaagac atctggcatc atttgcagca 1380
ctgtaacacc ttcagtctca gttgtgcaat tacttctgtt tctttagtca gggtctttgc 1440
agattctaaa gttatacatg aatacatcaa agtggacaaa ttttgttaag atcccattta 1500
atatttgaaa aaatcagtag cacaaatata ttttgattgt cacttacaaa ataaaataca 1560
tttacagtcw aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa 1620
aaaaaaaaaa aaaan                                                   1635

<210> 299
<211> 868
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (790)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (857)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (860)
<223> n equals a,t,g, or c
```

<400> 299
gctgaggggt agcgatgcgg gctccgggga tgaggtcgcg gccggcgggt cccgcgctgt 60
tgctgctgct gctcttcctc ggagcggccg agtcggtgcg tcgggcccag cctccgcgcc 120
gctacacccc agactggccg agcctggatt ctcggccgct gccggcctgg ttcgacgaag 180
ccaagttcgg ggtgttcatc cactggggcg tgttctcggt gcccgcctgg ggcagcgagt 240
ggttctggtg gcactggcag ggcgaggggc ggccgcagta ccagcgcttc atgcgcgaca 300
actacccgcc cggcttcagc tacgccgact tcggaccgca gttcactgcg cgcttcttcc 360
acccggagag tgggccgacc tcttccaggc cgcgggcgcc aagtatgtag ttttgacgac 420
aaagcatcac gaaggcttca caaactggcc gagtcctgtg tcttggaact ggaactccaa 480
agacgtgggg cctcatcggg atttggttgg tgaattggga acagctctcc ggaagaggaa 540
catccgctat ggactatacc actcactctt agagtggttc catccactct atctacttga 600
taagaaaaat ggcttcaaaa cacagcattt tgtcagtgca aaaacaatgc cagagctgta 660
cgaccttgtt aacagctata aacctgatct gatctggtct gatggggagt gggaatgtcc 720
tgatacttac tggaactcca caaattttct ttcatggsty tacaatgaca gccctgkcaa 780
ggtctctgtn gggtcgttga gggcaaggac cctgttttat tcaacctggg aactcagtgt 840
ttgccacatg tgaggcncan ggtagttc 868

<210> 300
<211> 547
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (542)
<223> n equals a,t,g, or c

<400> 300
ccacgacgtc cscggaacgc tsgttgacgg ggcctgagcc tctccgccgg cgcaggctct 60
gctcgcgcca gctcgctccc gcagccatgc ccaccaccat cgagcgggag ttcgaagagt 120
tggatactca gcgtcgctgg cagccgctgt acttggaaat tcgaaatgag tcccatgact 180
atcctcatag agtggccaag tttccagaaa acagaaatcg aaacagatac agagatgtaa 240
gcccatatga tcacagtcgt gttaaactgc aaaatgctga gaatgattat attaatgcca 300
gtttagttga catagaagag gcacaaagga gttacatctt aacacagggt ccacttccta 360
acacatgctg ccatttctgg cttatggttt ggcagcagaa gaccaaagca gttgtcatgc 420
tgaaccgcat tgtggagaaa gaatcgagtg gtgaaacaga acaatatctc actttcatta 480
tactacctgg ccagaatttg gagtcccttg aatcaaccag cttcanttct caatttcttg 540
gntaaag -547

<210> 301
<211> 865
<212> DNA
<213> Homo sapiens

<400> 301
ttagtagaga tggggtttca ccacattggc caggctggtc tcaaactcct gacctcaagt 60

```
gaatccacct accttggcct accgaggtgc tggaattaca ggtgtgagcc accgcgcctg 120
gcctaatact gctttattac aacgttatct gtgggtcgga atcctttttat attggttaac 180
agatgaccct gactcagaat aatcttttc aatggctttt tgagggaagc ttgtgaagtt 240
ctggtgaatc ttcttttttca cttcactttc agtgagctga aagtaaccaa actaaataca 300
tgtattgtgt aaagggacag gacaagacag ccttaaaaaa ttgaatatag ttggtgagac 360
aactcagaag tacaggtttg agcatcccct attcaaaatg cttgagaagt gttttgggtt 420
ctggaatatt tgcattaatg cttgccagtt gagcatccca ggtccggaaa tccacagtgc 480
tccaatgagc ctttcccctg agtgtcacat ctgtattggc actcaaaaag tttcatattt 540
tggagcattt cagattcag atttgggatg cttcatctat attgacagct gcaagaacag 600
aaaggaagaa gagattattt ttgtgggaga acagtttctc ccatagtgtt tcctgtggaa 660
tgctagtgtc tcataaagtc ttcyaaaaaa aaraaaaaaa aatcaaatgt ttggaagcca 720
ttttgtgtta ctgtgtgact ttcttttact caaaaacagc accataaaat ttctgacaag 780
tactataggt aaagaaatcc ctttatactt aacctagtat tttctacctt tccccatcta 840
aaataaaatt tttataccac tttct                                       865
```

```
<210> 302
<211> 815
<212> DNA
<213> Homo sapiens
```

```
<400> 302
asaagcataa acataagcac aaacacaagc ataagcatga cagtaaagaa aaggacaagg 60
agcctttcac tttctccagc cctgccagtg gcagtctatt cgttctcctt cccttcaga 120
ctgagaaggg gacaaaaaga cctttccttt catgtccaga agaatgtatg taactaaagc 180
tttgtcctct gtgaagaatt ataaaaggga ggggggaaag gattcgcctc tcctacagaa 240
attctgaatt catttaagtt ctaagcattt gattatgtt atttatacag ttgggatcta 300
attaggaaaa tgtgttttgt agttctggat aaactatttc atccgctgtt tcctcccaa 360
aacacacaca cagagcaaac tccctttcat aaaagccctc atatccactg gcagtccccg 420
ttcgcatcat ggtctccatg tgtaccgcca aagtcaatta tgtttgaaag cctttggtgg 480
atgttatggg gcaaagttat gatttacaca gaagcaactg ccaaatctgt ggtgcaacca 540
ctatctccag tgaaatattg tataacacca tttggaacta ctgaaaagac agtggctttt 600
ctacagtact cttccttatt gcaccatttt tgtattaacg tagaaactaa gcatcagaat 660
ttatgaacaa agaatatgtt attttttccyt ttgcyctaaa atactgagga tttggggaag 720
caattcyttt ttaaaaaaat tttggaataa ctayctttg rtacacattc gggsggttac 780
ggtgttgggg atttaggcag gactatccaa atccc                            815
```

```
<210> 303
<211> 1919
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1907)
<223> n equals a,t,g, or c
```

```
<400> 303
actgacagta cggtcggaat tcccgggtcg atccacgcgt ccgcggacgt ggsacaaaaa 60
cagatgctag gaagcttggc ttcctcttct tgttgaccct tttttgaacc aacatctttt 120
ttattatatt cagagtatgt ttttaagtgt atcttaatat atacattttt taggacatct 180
taaatctaaa caaaaaataa aatgaacatc tcttgaaacc tgttaaaaca accagttaaa 240
```

```
gccacagatg gctttcaggg cagtagcagc agaggccagt ggactctgag gactcctgag 300
gggcggggcg tgtagccagc caggtgcatg ccgggaccat ggcccccata cttggctgct 360
tcctgtgaca gtgaaataca tccttcaagg tggcagctgt tagggctgaa tcttctggag 420
aaaaaggtgc catctcagga gaatagcttt tactctggta ggaatgcttc cgagacacca 480
caaggcagcc tgaacactca gttgcagggt cgggcttgcg gtgggtgacc cagagccacc 540
aaagtcacat ccacaactaa tgagggaaat ctgtaaagcc agttagatag aagaattttta 600
tttttctgtg ggttttgtgt tgtctttttt atgttaaaaa gaaatccagt ttgtgttttt 660
ctatagraaa agtaaaagat caggttatac tttaggttag gggttctatt tattcctgtt 720
agtaaataaa attaacaaat ttctttgttt aacaaagat taatctttaa accactaaaa 780
tacatagact gattgattat tcaacacatt ggaattgatg tcggtcatag tttcctgaag 840
catttagtta caacctgaag gaataaaatg atttgtggaa atgcttaaaa tagacctaac 900
tgaatacagt ctcatcttgc cgcgcctggc ttacctatct gtggaaagct aggcttccca 960
ggctgggctc tgctgtctgg tgcctggagg tgtgggaggg aagatgagtt atttaactgg 1020
taagcgattt gaaacactat ttttatatta aagtaaatgg catggagtat agtgcaaatt 1080
catttttaag atagaacaca aaacttgaaa gaagttttat gcgtgtgaca gtgtatgggg 1140
ctgcagttgg tctccctgga ggggacttcc acacctcctg cctttaggcc atgggtggaa 1200
agtgctcagt gaagtacacc tgtgtggccc agttctgaaa gctttataca gttgaatttt 1260
aagtggggtt gataacacct tggactgtta gtgttaaaaa tctagtgggt tgacctttaa 1320
atgcaacagt ttttaaaata tattgctgca ttttatagaa tagtaaaggt acgattatac 1380
ttgagatttt cctccatttt tatttcttcg tgaacataga gtttggggcc gaaaatgttt 1440
ttaaagtatg tgtttgagtt aaatataaag ttggttcact tcaaagctaa aaaattgtta 1500
aacttgcagc ttggtattgc agagaagatt ttataagaat tttgctttag agaatgccac 1560
tttggctgaa ctacaagtgt aggccaccat tataatttat aaatacagca tacttcaaaa 1620
ctgtttgtta tctcttgtta ccatgtatgt ataaatggac cttttataac cttgttctct 1680
gcttgacaga ctcaagagaa actacccagg tattacacaa gccaaaatgg gagcaaggcc 1740
ttctctccag actatcgtaa cctggtgcct taccaagttg tgcttttctg ttttcaagtg 1800
taaatgatgt tgagcagaat gttgtacttg aaaatgctat aagtgagatg gtatgaaata 1860
aattctgact tatgaaaaaa aaaaaaaaaa agtcgacgcg ccggganatt tagtagtag 1919
```

<210> 304
<211> 157
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<400> 304
```
aggtgtacac cctgcccagc cacaagccga ttttttaaaag gtcaaatgct atgacagcca 60
ttttacagga aaaaaaaaaa ttgtatagtt gtggtgacgt tcctcacaca gngcaccagc 120
ttcagggagt ctgtcccttg cagacccctg aacccgg                        157
```

<210> 305
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

```
<222> (270)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c


<400> 305
aatgcagtgt tttcgattac tgatctctca ttacccaact atctgatggc atcttcggtt 60
ggactgcttc ctacccagct tctgaattct tacttgggta ccaccctgcg gacaatggaa 120
gatgtcattg cagaacagag tkttagtgga tattttgttt tttgtttaca gattattata 180
agtataggcc tcatgtttta tgtagttcat cgagctcaag tggaattgaa tgcagctatt 240
gtagcttgtg aaatgggaac tggaaatctn ctctggttaa aaggcaatca nccaaatacc 300
agtgggctct ttcattctac aacaagagga ccctaacatt ttt             343


<210> 306
<211> 696
<212> DNA
<213> Homo sapiens


·<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (585)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (593)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (649)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (661)
<223> n equals a,t,g, or c


<400> 306
gaagcaggca ggttgctcag ctgcccccgg agcggttcct ccacctgagg cagactccac 60
gtcggctggc atgagccggc gccctgcag ctgcgccta cggccacccc gctgctcctg 120
cagcgccagc cccagcgcag tgacagccgc cgggcgccct cgaccctcgg atagttgtaa 180
agaagaaagt tctacccttt ctgtcaaaat gaagtgtgat tttaattgta accatgttca 240
```

```
ttccggactt aaactggtaa aacctgatga cattggaaga ctagtttcct acacccctgc 300
atatttggaa ggttcctgta aagactgcat taaagactat gaaaggctgt catgtattgg 360
gtcaccgatt gtgagcccta ggattgtaga acttgaaact gaaagcaagc gcttgcataa 420
caaggaaaat caacatgtgc aacagacact taatagtaca aatgaaatag aagcactaga 480
gaccagtaga ctttatgaag acagtgctat tcctcaattt ctctacaaag tggcctcagt 540
gaccatgaag aangtagcct tctggaggag aaattcggtg acagnctaca atnctggctg 600
gttacaaatc caaggcccag acccaatatt cccaacaaaa aacttttgnt tggccaggtc 660
nttcaatttt tgaaaaaaag tgggttttgg tttaac                          696
```

```
<210> 307
<211> 396
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<400> 307
cctaggcctc ccaaaatgtt gggattacag gcgtgaggca ccgcacccaa cctaacagag 60
gaaacacttc aaatgcacat cctcacattt ctagtctacg tagctggaaa aaaaggacat 120
tyttaatatg ctaatgtgga ggtcacctag ttaccctaag ggagaaaagc aaggcaagga 180
cccactgcac agcaagttcc cccttggaag cccacgggcg cactgcccac aaatgcacat 240
aatctctgca gaaatacaaa agccctaatg ctggctgcac tggggacaca ggtaggagga 300
aattttcccc tgtaagcagt tttgaattct gaactatgtg gacagamcac caattttaaa 360
acaatgaaag tgagttggct gggcacatgg tttngc                          396
```

```
<210> 308
<211> 549
<212> DNA
<213> Homo sapiens

<400> 308
agagacaggg ggcaagaagg ggtgtmaggg cccagtraca aaatcattgg ggtttgtagt 60
cccaacttgc tgctgtcacc accaaactca atcatttttt tcccttgtaa atgcccctcc 120
cccagctgct gccttcatat tgaaggtttt tgagttttgt ttttggtctt aattttttctc 180
cccgttccct ttttgtttct tcgttttgtt tttctaccgt ccttgtcata actttgtgtt 240
ggagggaacc tgtttcacta tggcctcctt tgcccaagtt gaaacagggg cccatcatca 300
tgtctgtttc cagaacagtg ccttggtcat cccacatccc cggaccccgc ctgggacccc 360
caagctgtgt cctatgaagg ggtgtggggt gaggtagtga aaagggcggt agttggtggt 420
ggaacccaga aacggacgcc ggtgcttgga ggggttctta aattatattt aaaaaagtaa 480
ctttttgtat aaataaaaga aaatgggacg tgwaaaaaaa aaaaaaaaaa aaaactcga 540
gactagttc                                                        549
```

```
<210> 309
<211> 1778
<212> DNA
<213> Homo sapiens

<220>
```

<221> misc feature
<222> (1704)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1744)
<223> n equals a,t,g, or c

<400> 309

```
ctgtcttggc cttccagggt gctgggatta caggcgtgag ccactggaac ctggccttgt 60
tttgctttat tttttctctt acatgaagta aagcgctttg gtcaaacaca caaaaatact 120
gccttgtact ggtggttggt ttcattagtg gatcacacac agtgttctac ttggcttgta 180
aaatggtgcc ttggataggg tgagtttgga taagtatgta tgtatgtatg agttatagca 240
aaattaagta gattgaatca agtccatgca aaagcaataa aacagtttta attttttaat 300
ttttaaaaa ttaaaacttt aataaaacag tttttaattt tttgctaggt tcttttaaaa 360
aatgatgtaa cttacatgga agtcttcaca ggactttttt ctttcctgga actattgaaa 420
tgtaatttag gatgatttga tcttccatct caagttgtca acatggctgt gtcattctgg 480
cttacatatg tttatttaa caaaattcta gtcaagggat aagggcataa tgaagacaag 540
cttcagttat gaaagtacaa actatttgtg tgattaattt ttaaaaatga cattaagaag 600
cccattgtaa aataatattt gcagtcaaat ggtttttctt gctgtaagtc ctgttgtagc 660
tatgtttagg gtagtggttc tcatctacct tggagtgcat aagacttacc tagcaggctt 720
gtttaaaaag ttcagattcc tagctttgta cccagggatt gcctcaggtg gtatgggctg 780
tggtcctgga gtcatcactt ttataaatag tggttcagag accacagaga gagactgctt 840
catcgaatgg gaagtaccaa ggagaaagta caattcagta ttgtctggag gcaagtggac 900
actttgtacc tgaggtttag aataggtggt ctcttgccag tacaatcccc aggcgttttc 960
tgtgttcaga agtagtaaga atgcctttaa ttcagaggat tatctaagct ctttaaagct 1020
gtttttctcc attgtcatag tgccttctct gaaaaatgaa tgtacaggta tcctattttc 1080
taatgtaatt aggattttt aaaagcaatt tttgatagtt tttctttaa aaagtaaaat 1140
tcagcactgt gacttgaacc cccaaatctt tcacatacag gtgaaacatt aagccacaaa 1200
taaaaataat gaacaagaaa gaagacaaga tcctaattcc tgtcattagt gacctaagta 1260
ccccatatca gaaactttgc aaaacagatc tagggacaga agggctttga aagacatttt 1320
tctttggggc aaatttcgtg tgccagaact acagtttaaa tgtttttatg agcaagggaa 1380
ggtagcattg attcccatag ctttctaatt agatacatgc tgtcatggat gtaagcctta 1440
aaggagttaa tactaatctt gtacatacac aaattttcct caggtttttt tattttaaaa 1500
aatgatttgt taaaagtact gtctgctaga cccttgcctt tgagtggctt tgaaacttaa 1560
tatagttttt aaaaagtgca atgggatgag attatgctat tagtatatta aaagcatgtt 1620
tctgttttac tccaatttgt aagatcattt aatggaataa agatcacaac accaaaaaaa 1680
aaaaaaagg gcgggccgct ctanaagatc caagcttacg tacgcgttgc atgcgacgtc 1740
atanctcttc tatagtgtca ctaaattcaa ttcactgg                       1778
```

<210> 310
<211> 771
<212> DNA
<213> Homo sapiens

<400> 310

```
attaatttaa aaagcccccc aatctgtggt attttattat ggcagcccta gcaagctaat 60
acagtggttt gagaggctgg gagggttgag gggaagataa acttttaaaa agctcttatc 120
tttcatttca atcagttaaa aatacttgct cagtgtaaca attttgcttc tcagcttcca 180
ctctaatatt gttgtgccat taagcaattt agctaatcct gacatttctt agattcataa 240
```

```
tgttaggagc atttaatctg tattttacaa gttaggaagc agaggatcag agatgggaaa 300
ggactagccc aaggccaaca ttaacaagcc ctctaacaaa aactttacaa tacatttatg 360
ttgaatggaa ctccaagatc tcacctctcc atccaggaat ggagtccatg taatcaaagt 420
gaacttaaaa ataggacagt ttcaacaagt caggagattc acagcaactg atcaaaggga 480
gtccagtcaa cgtgagcaag cgtgattatg atgaggaagc cccctctgct ttaatccaca 540
caaggaacgt aacctgaagt aacctgatgt taaccaatct gctgtgtcta ctatgctgtt 600
tccttgttcc tgctagtgct gctttacaaa tgcagaccat tctatcatac ctggcrgggc 660
ttctgtttta ttttgtaggc tggatgctac ccagttcatg aatcgctaat aaaagccaat 720
tagatcttta taaaaaaaaa aaaaaaaaat tactgcggcc gacaagggaa t         771
```

```
<210> 311
<211> 1419
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1005)
<223> n equals a,t,g, or c

<400> 311
tcttgaaaac ccgggtcgac nggacncgtc cgcgaaggcc agcccttcga atactttgtt 60
tatggagctg cctgttccga ggttgaaata gactgcctga cgggggatca taagaacatc 120
agaacagaca ttgtcatgga tgttggctgc agtataaatc cagccattga cataggccag 180
attgaaggtg catttattca aggcatggra ctttatacaa tagaggaact gaattattct 240
ccccagggca ttctgcacac tcgtggtcca gaccaatata aaatccctgc catctgtgac 300
atgcccacgg agttgcacat tgctttgttg cctccttctc aaaactcaaa tactctttat 360
tcatctaagg gtctgggaga gtcgggggtg ttcctggggt gttccgtgtt tttcgctatc 420
catgacgcag tgagtgcagc acgacaggag agaggcctgc atggaccctt gacccttaat 480
agtccactga ccccggagaa gattaggatg gcctgtgaag acaagttcac aaaaatgatt 540
ccgagagatg aacctggatc ctacgttcct tggaatgtac ccatctgaat caaatgcaaa 600
cttctggaga aaacagagtg cctcttccca gatggcaatc tgtcctatct ctgtgctgga 660
agatgctaga tctgaaagac agagtttcca cagttcagaa atcatcccac agtgttgctt 720
ttctatggag ctgatttaaa gtattccatt agatttgat agatatgctt aagcaatcta 780
taaatcattt tcaatgttat aaacactaat tggtttcctc tagggtgata ttcgtcatta 840
ctctgtctct tcaatccatc cagctaaatg gaataggtga tgacttgcat gtgactccta 900
cttggcttct atccaccaac agaaattata ccatatagtg aaaggcaatt ttctaaataa 960
tttcattact aatatgaact gtgaagttgt cattttttca tttgnccttt tctgctatca 1020
ccttcctctt gtcagaatga atatagacac tgtatctaag tgggaccaaa gaaaaaatag 1080
cgaactttca ccaaagtttt catgaaaacc caaaagcttt aaaagktact atcaagaaat 1140
tgaaaggaaa cccacagaat aggataaaat atttgtaaat catatatttg ataaaagtct 1200
```

```
tgtaaccaga tacataaaga gctcttacaa ctcaataaaa ggcaagtaat ttaaaaatag 1260
gcaaaagaat tgctggatgg tatggtagtt ccatttttag tttttaccct aactactctg 1320
acttgatcat ttaacattct gtgtatgtaa caaaatatca catgcataaa tattatgtat 1380
caataaaatt ttttaatggg caaaaaaaaa aaaaaaaaa                        1419
```

<210> 312
<211> 526
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c

<400> 312
```
gggaagttca aagggaattt ttttattgtt tagcttgttt ttaggttgca gtaaattctc 60
taggtcatcc agcaggatta ggaagagaag cattgtgaga aacaggtttt gggttttgct 120
gaaatttgct tgtcagcatt gcatcacttt tccttaactg ttctctaagt actgatgtct 180
ttcaaattga ctcagakcat actccttatc tttgagcaga atattttgaa cagaaaawta 240
agccattttc atttatatac ctaattcaat aggtttataa ataaaagggc aaatcctcac 300
gaataataca gtacagtgaa aaattgctct ccccctagga actgaggaat agaaaacaa 360
tttcctctta cattgtttat agtaggtagc ccttgaaaag aaaatcactt atccctgcca 420
cccccatggt cctcataaca agttagggaa actgaaattg ctggaaattt aggattctwa 480
ggcamcaggc wgggaaatag ggtcctcata cctgaccttt ttctnc                526
```

<210> 313
<211> 2435
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2408)
<223> n equals a,t,g, or c

<400> 313
```
ggcacgagcg cgaangacac ggcctgggcg ccgactgcag agccgggagg ctggtggtca 60
tgccgggggtt cctggttcgc atcctccttc tgctgctggt tctgctgctt ctgggcccta 120
cgcgcggctt gcgcaatgcc acccagagga tgtttgaaat tgactatagc cgggactcct 180
tcctcaagga tggccagcca tttcgctaca tctcaggaag cattcactac tcccgtgtgc 240
cccgcttcta ctggaaggac cggctgctga agatgaagat ggctgggctg aacgccatcc 300
agacgtatgt gccctggaac tttcatgagc cctggccagg acagtaccag ttttctgagg 360
accatgatgt ggaatatttt cttcggctgg ctcatgagct gggactgctg gttatcctga 420
ggcccgggcc ctacatctgt gcagagtggg aaatgggagg attacctgct tggctgctag 480
agaaagagtc tattcttctc cgctcctccg acccagatta cctggcagct gtggacaagt 540
```

```
ggttgggagt cccttctgccc aagatgaagc ctctcctcta tcagaatgga gggccagtta 600
taacagtgca ggttgaaaat gaatatggca gctactttgc ctgtgatttt gactacctgc 660
gcttcctgca gaagcgcttt cgccaccatc tggggggatga tgtggttctg tttaccactg 720
atggagcaca taaaacattc ctgaaatgtg gggccctgca gggcctctac accacggtgg 780
actttggaac aggcagcaac atcacagatg ctttcctaag ccagaggaag tgtgagccca 840
aaggacccctt gatcaattct gaattctata ctggctggct agatcactgg ggccaacctc 900
actccacaat caagaccgaa gcagtggctt cctccctcta tgatatactt gcccgtgggg 960
cgagtgtgaa cttgtacatg tttataggtg ggaccaattt tgcctattgg aatggggcca 1020
actcacccta tgcagcacag cccaccagct acgactatga tgccccactg agtgaggctg 1080
gggacctcac tgagaagtat tttgctctgc gaaacatcat ccagaagttt gaaaaagtac 1140
cagaaggtcc tatccctcca tctacaccaa agtttgcata tggaaaggtc actttggaaa 1200
agttaaagac agtgggagca gctctggaca ttctgtgtcc ctctgggccc atcaaaagcc 1260
tttatccctt gacatttatc caggtgaaac agcattatgg gtttgtgctg taccggacaa 1320
cacttcctca agattgcagc aacccagcac ctctctcttc accccctcaat ggagtccacg 1380
atcgagcata tgttgctgtg gatgggatcc cccagggagt ccttgagcga aacaatgtga 1440
tcactctgaa cataacaggg aaagctggag ccactctgga ccttctggta gagaacatgg 1500
gacgtgtgaa ctatggtgca tatatcaacg attttaaggg tttggtttct aacctgactc 1560
tcagttccaa tatcctcacg gactggacga tctttccact ggacactgag gatgcagtgc 1620
gcagscacct ggggggctgg ggacaccgtg acagtggcca ccatgatgaa gcctgggccc 1680
acaactcatc caactacacg ctcccggcct tttatatggg gaacttctcc attcccagtg 1740
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tctggattaa tggctttaac cttggccgct attggccagc ccgggggccct cagttgacct 1860
tgtttgtgcc ccagcacatc ctgatgacct cggccccaaa caccatcacc gtgctggaac 1920
tggagtgggc accctgcagc agtgatgatc cagaactatg tgctgtgacg ttcgtggaca 1980
ggccagttat tggctcatct gtgacctacg atcatccctc caaacctgtt gaaaaaagac 2040
tcatgccccc acccccgcaa aaaaacaaag attcatggct ggaccatgta tgatgatgaa 2100
agcctgtgtc tttgagggat tctaccctga acatacctca cagatcctcc ctgtcatgcc 2160
acatttcact gattggaatg tggaaatgga aaaggaattt aggatgtgca ttttcacctg 2220
aggtttccct gcatccctgc agtgccaaag ccccaccttc agggaccacc tggaatgtgt 2280
gaggggctga cagcacagta acgtgcatac atatctgcag ggctggaatg gaagctttaa 2340
aggtggtagt gatttttatt ttggaagaat catgttacct ttttgttaaa taaaatttgt 2400
actcaaanaa aaaaaaaaaa aaaaaaaaaa aaaaa                          2435
```

<210> 314
<211> 2543
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2538)
<223> n equals a,t,g, or c

<400> 314
```
ctccgttgga aacttgggct gagtaccgcg gcgggcgcga gcraggcgcc ctagacatct 60
tctccctccc ttgcctcaga tttattgcta aacatgggtg cattttttgga taaacccaaa 120
actgaaaaac ataatgctca tggtgctggg aatggtttac gttatggcct gagcagcatg 180
caaggatgga gagtggaaat ggaagatgca cacacagctg ttgtaggtat tcctcacggc 240
ttggaagact ggtcattttt tgcagtttat gatggtcatg ctggatcccg agtggcaaat 300
tactgctcaa cacatttatt agaacacatc actactaacg aagactttag ggcagctgga 360
aaatcaggat ctgctcttga gctttcagtg gaaaatgtta agaatggtat cagaactgga 420
```

```
tttttgaaaa ttgatgaata catgcgtaac ttttcagacc tcagaaacgg gatggacagg 480
agtggttcaa ctgcagtggg agttatgatt tcacctaagc atatctactt tatcaactgt 540
ggtgattcac gtgctgttct gtataggaat ggacaagtct gcttttctac ccaggatcac 600
aaaccttgca atccaaggga aaaggagcga atccaaaatg caggaggcag cgtgatgata 660
caacgtgtta atggttcatt agcagtatct cgtgctctgg gggactatga ttacaagtgt 720
gttgatggca agggcccaac agaacaactt gtttctccag agcctgaggt ttatgraatt 780
ttaagagcag aagaggatga atttatcatc ttggcttgtg atgggatctg ggatgttatg 840
agtaatgagg agctctgtga atatgttaaa tctaggcttg aggtatctga tgacctggaa 900
aatgtgtgca attgggtagt ggacacttgt ttacacaagg gaagtcgaga taacatgagt 960
attgtactag tttgcttttc aaatgctccc aaggtctcag atgaagcggt gaaaaaagat 1020
tcagagttgg ataagcactt ggaatcacgg gttgaagaga ttatggagaa gtctggcgag 1080
gaaggaatgc ctgatcttgc ccatgtcatg cgcatcttgt ctgcagaaaa tatcccaaat 1140
ttgcctcctg ggggaggtct tgctggcaas cgtaatgtta ttgaagctgt ttatagtaga 1200
ctgaatccac atagagaaag tgatgggggt gctggagatc tagaagaccc atggtagcct 1260
taaaaacctt ctaaatgct tttrattctg aaaattgggg gaaaaaactt ttaatcacaa 1320
ttttcttcaa tacaagggga aaatattctt gcggattccc aacgttttgt gatatgagca 1380
gaaaatcatt agcatttccc atcatttgtt catatttgtg ttttctgaca gttgccactt 1440
gtagcattgc ctgtactaca gtattttttg ccaacctcag gcatactcgt tacatctgta 1500
ttgaactttc ggccctagaa accagtggag ttatttcacc acaaatcaac aatgtgcctg 1560
aggtgcatgg gaaatatagt tagctatact ctgaaaatac attatgtttt ttttctttaa 1620
acaaaacaca caacatgtaa gcatgtaaga gtaaagaatt gtatgatatg ttcctttttt 1680
cagttcacca agttggaagc cttttgcagc tctgtggctt ggaatttcat ttgagcaatt 1740
tctataggat atgtatttat tattgattgt tatttaawww wwttccamtt ttacctgtat 1800
taccaaactg ggttctccaa taatgtccaa attgtaatgt tgccttgctt caagataaag 1860
tgtatttggg aataatatta taaacccttm caaattttat gcatgtatct actgcatcct 1920
tcaactctca ctagaaaatc ttttgaaacc aaatggatta atttatggct atttataatt 1980
tgctttgaca tctcactgtt ggaaattttt taaagatgag atttgccttt ataatgtaaa 2040
ttgtgatttt tgttttacat gtgggtttct atagttttaa ttttttcagc ttttaagata 2100
cgagttttgt gtaatttggt atttttaatc atttatgtta ttttaaaagc tcagaatatc 2160
acattgaaat tactataaat acatttaaaa ttatctattt tagatctaag gaaatactac 2220
agagatattt tcatgggttc agtaactttt cattttataa cattgggcac ggtacagagt 2280
gattgtcaca taaggtactt gaagatttat tagtttaatt ctatttttac agtaaccttg 2340
aattcttctg agttttgcat gtattaaatt caattaatgc tgaacatgaa gagtaaagta 2400
tttatctgaa agaagtttct gggttaggag aagtaatgaa tgtatccatt tgtacatggt 2460
ttacatgttg tggatgcttt gtaaacattt tcctgtatgt ttaaattgtg tttcagcagg 2520
atgtagttgc ccttgtgnag gtt                                          2543
```

<210> 315
<211> 828
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (828)
<223> n equals a,t,g, or c

<400> 315
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taattcggca cgmgtcccgg gtggagctgg ctgagtcgcg cgctctgctc cacccgacgg 60
ggctgtgtgt gctgggcctg gctcgcggcg aaccgagatg gcagagcagt cggacgaggc 120
cgtgaagtac tacaccctag aggagattca gaagcacaac cacagcaaga gcacctggct 180
```

```
gatcctgcac cacaaggtgt acgatttgac caaatttctg gaagagcatc ctggtgggga 240
agaagtttta agggaacaag ctggaggtga cgctactgag aactttgagg atgtcgggca 300
ctctacagat gccagggaaa tgtccaaaac attcatcatt ggggagctcc atccagatga 360
cagaccaaag ttaaacaagc ctccggaaac tcttatcact actattgatt ctagttccag 420
ttggtggacc aactgggtga tccctgccat ctctgcagtg gccgtcgcct tgatgtatcg 480
cctatacatg gcagaggact gaacacctcc tcagaagtca gcgcaggaag agcctgcttt 540
ggacacggga gaaaagaagc cattgctaac tacttcaact gacagaaacc ttcacttgaa 600
aacaatgatt ttaatatatc tctttctttt cttccgaca ttagaaacaa aacaaaaaga 660
actgtccttt ctgcgctcaa attttttcgag tgtgcctttt tattcatcta ctttattttg 720
atgtttcctt aatgtgtaat ttacttatta taagcatgat cttttaaaaa tatatttggc 780
tttttaaagta aaaaaaaaaa aaaaaggggg ccgccctaa agggtccn           828
```

<210> 316
<211> 1608
<212> DNA
<213> Homo sapiens

<400> 316
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ccaggctttt gcaaaaagct atttaggtga cactatagaa ggtacgcctg caggtaccgg 60
tccggaattc ccgggtcgac ccacgcgtcc gaggaggaag ccgactgctg cctggtctgc 120
aaagaagtcc tttcaagtct ctaggactgg actcttccta agcaagtccg gaagcaccct 180
cactatgtgg ctctacctgg cggccttcgt gggcctgtac taccttctgc actggtaccg 240
ggagaggcag gtggtgagcc acctccaaga caagtatgtc tttatcacgg gctgtgactc 300
gggctttggg aacctgctgg ccagacagct ggatgcacga ggcttgarag tgctggctgc 360
gtgtctgacg gagaaggggg ccgagcagct gaggggccag acgtctgaca ggctggagac 420
ggtgaccctg gatgttacca agatggagag catcgctgca gctactcagt gggtgaagga 480
gcatgtgggg gacagaggac tctggggact ggtgaacaat gcaggcattc ttacaccaat 540
taccttatgt ragtggctga acactgagga ctctatgaat atgctcaaag tgaacctcat 600
tggtgtgatc caggtgacct tgagcatgct tcctttggtg aggagagcac ggggaagaat 660
tgtcaatgtc tccagcattc tgggaagagt tgctttcttt gtaggaggct actgtgtctc 720
caagtatgga gtggaagcct tttcagatat tctgaggcgt gagattcaac attttggggt 780
gaaaatcagc atagttgaac ctggctactt cagaacggga atgacaaaca tgacacagtc 840
cttagagcga atgaagcaaa gttggaaaga agcccccaag catattaagg agacctatgg 900
acagcagtat tttgatgccc tttacaatat catgaaggaa gggctgttga attgtagcac 960
aaacctgaac ctggtcactg actgcatgga acatgctctg catcggtgc atccgcgaac 1020
tcgatattca gctggctggg atgctaaatt tttcttcatc cctctatctt atttacctac 1080
atcactggca gactacattt tgactagatc ttggcccaaa ccagcccagg cagtctaaag 1140
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aatcctgatt tagaacccag gctttttgta acaatgtgtt ttcttgccta aattcattta 1260
tctggcatca tcagagtact aacatgttta tatttcagat atccaaagct taccacttta 1320
ggtgatgaat ctttactatt ttagcccttt tttgatgaga ctatttgtct aaagtgaatc 1380
atttgttctt gccttattaa acagagtaga tggaaaacaa tttaacctat tttgaagtca 1440
tttctttatg aatatgaata attgttctat gctttaataa tctattgtga ggaaactact 1500
aagaaatatg ttggtgtgtt tgtccttact tgaaatgggt ctgtattatg gtacttttaa 1560
taaatatttg attttttcttt ctcttcaaaa aaaaaaaaaa aaaaaaaa       1608
```

<210> 317
<211> 1057
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (958)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (966)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1035)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1053)
<223> n equals a,t,g, or c

<400> 317
ttaactcaaa ctctaaagtc ttgagtgttt caaagtcagt cgttacctgt ttaaaagcct 60
cagcctttag cttattcctc cttcaataca cgggaccttt ggttaatttg gggcaggaaa 120
actcttaaag taatctctct tgggcagagg ccttattgca ccagagggaa aaagtatata 180
cttcatttgc tgttactcca gttatgcctt aaattcattt gcttggtaat cctatcaacg 240
rgcactaact tcttagtata ctttaaacac ttagttgggt aacactgaga ttttgttgtc 300
ctttattttt tgctgagatg gagtcagtca gatgttagtc atagctaaca ccgaatttgt 360
gttgtcattt agacagttac tgattcgatc tgctttatat atgagaacgt attttttaact 420
attccaagaa ggaagaggta gctaaatgta atccctctt cctatcccc cagaaaactg 480
aactgtaagt tctaggtaga ctaattggga gcagacacgg agttttagat gccttagcca 540
aacccagcag aaacctttca cacagccact catcgtaaga aacgcagatt tttctcttct 600
catgcttgtc tctggttccc tgcatttgta gtgacagaac tttcactagc aggatataaa 660
gaaagtaatt atgcttggag tccctctta ctgggtttga gttaggtgca taacatggaa 720
aggagtggtg ccttcaaatg aatgtgacca ctccgtattg tggagtgact tccctaggg 780
atcctataca tcctaccaca gaaggccaag ggacagagca ccaacttcag tatccaagaa 840
attagatcca caactcttga ttttccacac tgaggactgt cgcgagtaag ttgtaagttt 900
gccgtcttcc ttctggctta gcaggtgctg cagctgtact ctcgactcct gtctgtgnag 960
cgtganyagg gaaaatgagg agtggagtct atttccaaaa aaaaatgtgg atggagtttt 1020
ttccttaaag tggcnttcat tggcccaatt ccntttt 1057
```

```
<210> 318
<211> 1336
<212> DNA
<213> Homo sapiens

<400> 318
ccgtccggaa ttcccgggtc gacccacgcg tccgaaagaa aacttcctga agaacatgcc 60
agattttact ctgcagaaat cagtctagca ttaaattatc ttcatgagcg agggataatt 120
tatagagatt tgaaactgga caatgtatta ctggactctg aaggccacat taaactcact 180
gactacggca tgtgtaagga aggattacgg ccaggagata caaccagcac tttctgtggt 240
actcctaatt acattgctcc tgaaatttta agaggagaag attatggttt cagtgttgac 300
```

```
tggtgggctc ttggagtgct catgtttgag atgatggcag gaaggtctcc atttgatatt 360
gttgggagct ccgataaccc tgaccagaac acagaggatt atctcttcca agttattttg 420
gaaaaacaaa ttcgcatacc acgttctctg tctgtaaaag ctgcaagtgt tctgaagagt 480
tttcttaata aggaccctaa ggaacgattg ggttgtcatc ctcaaacagg atttgctgat 540
attcaggggac acccgttctt ccgaaatgtt gattgggata tgatggagca aaaacaggtg 600
gtacctccct ttaaaccaaa tatttctggg gaatttggtt tggacaactt tgattctcag 660
tttactaatg aacctgtcca gctcactcca gatgacgatg acattgtgag gaagattgat 720
cagtctgaat ttgaaggttt tgagtatatc aatcctcttt tgatgtctgc agaagaatgt 780
gtctgatcct cattttttcaa ccatgtattc tactcatgtt gccatttaat gcatggataa 840
acttgctgca agcctggata caattaacca ttttatattt gccacctaca aaaaaacacc 900
caatatcttc tcttgtagac tatatgaatc aattattaca tctgttttac tatgaaaaaa 960
aaattaatac tactagcttc cagacaatca tgtcaaaatt tagttgaact ggttttcag 1020
tttttaaaag gcctacagat gagtaatgaa gttatctttt ttgtttaaaa aaaaaaaaaa 1080
cactgcatta aaaaagtatc tgttgcatta aggcacatag tgggattaca tcataaacct 1140
cccataattt ttgtcattct gtgttaaatc atttcagggt ttaattttga aataaaagat 1200
taatataaaa tgcaacaact ttttatatta cctattagtt ttggagttct ttatgtttaa 1260
aaattcaggt gtaaatttta ttgccttgga taaataaatt attgatcctt tttaaggcag 1320
cagttattaa attggt                                                 1336
```

<210> 319
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<400> 319
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aattcggcas aggggcgctt ctgaaactca tctttcctga tggagcgttt gaaagtgaga 60
atcgagcatt gatcaatgtc caaatgctga acaattcagg attcgctagg ggaattattg 120
aagagttcca aaataataat gaccttgagt tacaacaaaa atgtattaat gtactaagca 180
catatgctat gattcaggga caaattgatg caaataagga gattgggcag ttcttcatac 240
aaactttaac acagttgaat gttcgccctg aaattttgat agaaatgaca aattcgcttt 300
tccaatttac ggggatgcct cttacggcta taatggaacc atwtttgtaa ggggtgggtt 360
tttatcyatt ctaaargacc cagttgtacc caatttgrgg cmgcmattcc aaatgggtgg 420
ttaaaaccaa atncccganc twaargaagk tgccctggtt gctttactac gttgggtagt 480
ttcatcacta caaatg                                                 496
```

<210> 320
<211> 1756
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (1718)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1721)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1733)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1750)
<223> n equals a,t,g, or c

<400> 320
gtcgacccac gcgtccgcgg cacgcgtggg ctgaattgcg cgtggtggcc atggcggcca 60
gcggggctgt ggaaccaggg cccccggggg ctgccgtcgc cccgtcgccc gccccggccc 120
cgccgcctgc ccctgatcac ctgttccggc ccatcagcgc cgaggacgag gagcagcakc 180
ccaccgagat cgagtcgcta tgcatgaact gttactgcaa tggcatgacg cgcctcctgc 240
tcaccaagat tcccttcttc agagaaataa tagtgagctc cttttcctgc gagcactgtg 300
gctggaacaa cacggagatc cagtcggcag gcaggatcca ggaccaggga gtgcgctaca 360
ctttgtctgt carggctctg gargacatga acagagaagt ggtgaagact gactctgctg 420
ccacaaggat tcctgagcta gattttgaaa ttcctgcctt tagccagaaa ggagctctga 480
ccactgttga aggattgatc acccgtgcta tctctggcct ggagcaggac cagcctgcac 540
gaagggcaaa caaagatgct acagctgaaa gaattgatga gttcattgtc aaactgaagg 600
agctaaagca agtagcctcc cctttcactc tgatcattga tgatccctca gggaacagtt 660
ttgtggaaaa cccacatgct cctcagaaag atgatgccct ggtgatcaca cactacaacc 720
ggacccgaca gcaggaagag wtgctggggc ttcaagaaga agcaccagca gagaagccag 780
aagaggaaga tctcagaaat gaagtgctcc mgttcagcac aaaytgccca gaatgcaatg 840
tccccgstca gaccaacatg aagctaatgg tggtcttgtt cgcctggaag tagatttcct 900
taactccgtt ttccagaaat ccctcacttt aaggaggtta tcatcatggc taccaactgc 960
gagaactgtg ggcatcggac caatgaggtg aaatctggag gagcagtaga acccttgggc 1020
accaggwtca ccctccacat cacagatgcc tcagatatga ccagagacct cctcaagtct 1080
gagacttgca gtgtggaaat cccagagcta gaatttgaac tgggaatggc agtcctcggg 1140
ggcaagttca ccacactgga agggctgctg aaagacatcc gggaactggt gaccaaaaat 1200
cctttcacac tgggcgacag ttccaatcct ggacagacgg agagactaca ggagtttagc 1260
cagaagatgg accagatcat cgaaggtaac atgaaggccc actttattat ggatgatcca 1320
gcaggaaaca gttacttgca gaatgtgtat gcgcctgaag atgatcctga gatgaaggtg 1380
gagcgttaca agcgcacctt tgaccaaaat gaggagctag ggctcaatga catgaagaca 1440
gagggctatg aggcaggcct ggctccgcaa cggtagcagt gggtggctca agggccagcc 1500
tccagcgctg ctctttctgt aggttattta ttagtattgg atgaaggcga aggctgggag 1560
tgtctttccc accagccctt gcccatggtg gggaggacat ctggtctgag tcagagatct 1620
gtgcacactt tctaaacagc ttgtgatgca agtgtgagcc tattgtgtta cttgacctta 1680
ttttggaagt tttgaattgg cctaggagga aacccccnga nttcagcttg ggncttacca 1740
ggcttgactn gctcaa   1756

```
<210> 321
<211> 588
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (543)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (574)
<223> n equals a,t,g, or c

<400> 321
gggaggccga ggtgggagga tcactggagc tcgggagttc aagaccagcc tgggcaacat 60
agtgaaaccg tctccacaaa taattttaa aaaattagcc aggcatggtg gtgccgcctg 120
tagtcccagc tactcaggag gcttgggtgg gaggattgcc tgagaccagg aggttgaggc 180
tgcagtgagc cgtgatttca ccaccactcc agcctgggtg agaaagcaag accctatatc 240
aatgaaaaaa aaaaaaaaaa aagaccagct ttgcagccag aagccagagg atacccaggg 300
acagtagggc tcccaggtgg ctggttctca gcacaccttc catgaatctg cttgctgctg 360
cttcagtgtg gtggccatcg tgctgtgtga caaaccaggg ctgttcacag yttcctcagc 420
cccccagaag gggagttgtt cagggaagag acattttagt ttcattttgc cttgcaattt 480
tctttcttcc ttgcaaggtt cttcggtggg anttcagttc accaaaacaa aaggcttaaa 540
ccngggtttt tttaaggaga gggtttntta aatncccttt tgcccgac            588

<210> 322
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<400> 322
gacagtcacn gtacngnant cccggtcgac ccacgcgtmc gagaagcagg aattcctgaa 60
ttttatgact atgacgttgc cctgatcaag ctcaagaata agctgaaata tggccagact 120
atcaggccca tttgtctccc ctgcaccgag ggaacaactc gagctttgag gcttcctcca 180
actaccactt gccagcaaca aaaggaagag ctgctccctg cacaggatat caaagctctg 240
tttgtgtctg aggaggagaa aaagctgact cggaaggagg tctacatcaa gaatggggat 300
aagaaaggca gctgtgagag agatgctcaa tatgccccag gctatgacaa agtcaaggac 360
atctcagagg tggtcacccc tcggttcctt tgtactggag gagtgagtcc ctatgctgac 420
cccaatactt gcagaggtga ttctggcggc cccttgatag ttcacaagag aagtcgtttc 480
attcaagttg gtgtaatcag ctggggagta gtggatgtct gcaaaaacca gaagcggcaa 540
aagcaggtac ctgtcacgcc cgagactttc acatcaacct ctttcaagtg ctgccctggc 600
tgaaggagaa actccaagat gaggatttgg gttttctata aggggtttcc tgctggacag 660
gggcgtggga ttgaattaaa acagctgcga caacaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaag ggggggg                                                  738
```

```
<210> 323
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (759)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (798)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (857)
<223> n equals a,t,g, or c

<400> 323
agaccagcag ctggccgctg ggctgtgaac gccagggacc gagcggaagt tcccgcccgg 60
ncgcgatcgg tgccgcggct tctgcaggga agtggctacg cgcgtccctc gggaaaagca 120
ggctttgcaa attggcagcc caagtytcag gggcctgtgc agtgactgat cattaccaac 180
atttcgaagt gagagatgtc acataaagag cgtcatttcg agcttctctt gaaaagttgt 240
aaggtgagct accctgggac tgtattcctg aatggcaatg tgatggcaga gtcctgcagt 300
attaccacct gaggacttgt gcaccaggqt tcccacccac ccacttcagg cccttggttc 360
agggatgtgc ccgtcatgga aataacaggt gctgtggctc tgctggtttt ggctttcctt 420
ctctgtaacc ttccaatatc tttctccttc caggtactgt aaaccactta gtaattaatt 480
agttaataaa ttcatctcat cagcactttt aaaataatgt gctaggccac actgtcatgg 540
accccagata tacagcagca aacaaagcag ccatggtacc ttccctcagg gagcagtcag 600
tccagtggag gagtcagata tgactcacca cacagatcga aaaatctyca caaattatga 660
gaagaatgct gagggaagaa agaacatagg tggacccgct gctgagtcca ggcttacttg 720
cagagatcta tgctggccag gccctgtgct aggcagcana ngacatggaa taaaatcaaa 780
taaggncact gtgtgcangc accttacggt gtgggaaaag gaacaagccc cattcacagg 840
gttttattaa tttccancct gtgagaaatt gggaac                            876

<210> 324
<211> 1322
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1309)
<223> n equals a,t,g, or c

<400> 324
aattcggcac gagcggcacg agggaaattg agcggagagc gacgcgnttg ttgtagctgc 60
cgctgcggcc gccgcggaat aataagccgg gatctaccat acccattgac taactatgga 120
agattatacc aaaatagaga aaattggaga aggtacctat ggagttgtgt ataagggtag 180
acacaaaact acaggtcaag tggtagccat gaaaaaaatc agactagaaa gtgaagagga 240
aggggttcct agtactgcaa ttcgggaaat ttctctatta aaggaacttc gtcatccaaa 300
tatagtcagt cttcaggatg tgcttatgca ggattccagg ttatatctca tctttgagtt 360
tctttccatg gatctgaaga aatacttgga ttctatccct cctggtcagt acatggattc 420
ttcacttgtt aagagttatt tataccaaat cctacagggg attgtgtttt gtcactctag 480
```

```
aagagttctt cacagagact taaaacctca aaatctcttg attgatgaca aaggaacaat 540
taaactggct gattttggcc ttgcagagct tttggaatac ctatcagagt atatacacat 600
gaggtagtaa cactctggta cagatctcca gaagtattgc tggggtcagc tcgttactca 660
actccagttg acatttggag tataggcacc atatttgctg aactagcaac taagaaacca 720
cttttccatg gggattcaga aattgatcaa ctcttcagga ttttcagagc tttgggcact 780
cccaataatg aagtgtggcc agaagtggaa tctttacagg actataagaa tacatttccc 840
aaatggaaac caggaagcct agcatcccat gtcaaaaact tggatgaaaa tggcttggat 900
ttgctctcga aaatgttaat ctatgatcca gccaaacgaa tttctggcaa aatggcactg 960
aatcatccat attttaatga tttggacaat cagattaaga agatgtagct ttctgacaaa 1020
aagtttccat atgttatgtc aacagatagt tgtgtttta ttgttaactc ttgtctattt 1080
ttgtcttata tatatttctt tgttatcaaa cttcagctgt acttcgtctt ctaatttcaa 1140
aaatataact taaaaatgta aatattctat atgaatttaa atataattct gtaaatgtgt 1200
gtaggtctca ctgtaacaac tatttgttac tataataaaa ctataatatt gatgtcagga 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg cggccgctng cgatctagaa 1320
ct                                                                  1322
```

<210> 325
<211> 342
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<400> 325
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aattcggcag agctaaaaca gattcaaacc ttgaagcaga tgaacgagca actgcaggct 60
gagnacaggg ncctgacccg agtggtggcc agactctcgg agtccatcga gtcctcggac 120
acccaggagc tctagttctk gcccctactc tccaactcac ttccctcctc cactactcca 180
ggcaggttca gtcttcttgt tagtcccaga agctctgtgc tcatcccctc catccgagcc 240
tccatatgca ggttcctgca aagcttggtt atctgcagat ggaagcagcc aggactgaga 300
tcatagaatg gggacatacc agcctaggtc aagggaggca gt                    342
```

<210> 326
<211> 3690
<212> DNA
<213> Homo sapiens

<400> 326
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ctgggcgact cctcctcctc ctcttctcgc cattgcagtt ggacccagca gcccggcgcg 60
cacgcgtggc ttttggggggc agaccccggc gggctgtggc aggagggcgg cggcggcggc 120
tgcggtcgaa gaaggggacg ccgacaagag ttgaagtatt gataacacca aggaactcta 180
tcacaatttg aaaagataag caaaagtttg atttccagac actacagaag aagtaaaaat 240
gcgtccaatg cgaattttttg tgaatgatga ccgccatgtg atggcaaagc attcttccgt 300
ttatccaaca caagaggagc tggaggcagt ccagaacatg gtgttcccac acggagcggg 360
```

```
cgctcaaagc tgtgtccgac tggatagacg agcaggaaaa gggtagcagc gagcaggcag 420
agtccgataa catggatgtg cccccagagg acgacagtaa agaaggggct ggggaacaga 480
agacggagca catgaccaga accctgcggg gagtgatgcg ggtgggcctg gtggcaaagg 540
gcctcctact caagggggac ttggatctgg agctggtgct gctgtgtaag gagaagccca 600
caaccgccct cctggacaag gtggccgaca acctggccat ccagcttgct gctgtaacag 660
aagacaagta cgaaatactg caatctgtcg acgatgctgc gattgtgata aaaaacacaa 720
aagagcctcc attgtccctg accatccacc tgacatcccc tgttgtcaga gaagaaatgg 780
agaaagtatt agctggagaa acgctatcag tcaacgaccc cccggacgtt ctggacaggc 840
agaaatgcct tgctgccttg gcgtccctcc gacacgccaa gtggttccag gccagagcca 900
acgggctgaa gtcttgtgtc attgtgatcc gggtcttgag ggacctgtgc actcgcgtgc 960
ccacctgggg tcccctccga ggctggcctc tcgagctcct gtgtgagaaa tccattggca 1020
cggccaacag accgatgggt gctggcgagg ccctgcggag agtgctggag tgcctggcgt 1080
cgggcatcgt gatgccagat ggttctggca tttatgaccc ttgtgaaaaa gaagccactg 1140
atgctattgg gcatctagac agacagcaac gggaagatat cacacagagt gcgcasccgc 1200
actgcggctc gctgccttcg gccagctcca taaagtccta ggcatggacc ctctgccttc 1260
caagatgccc aagaaaccaa agaatgaaaa cccagtggac tacaccgttc agatcccacc 1320
aagcaccacc tatgccatta cgcccatgaa acgcccaatg gaggaggacg gggaggagaa 1380
gtcgcccagc aaaaagaaga agaagattca gaagaaagag gagaaggcag agccccccca 1440
ggctatgaat gccctgatgc ggttgaacca gctgaagcca gggctgcagt acaagctggt 1500
gtcccagact gggcccgtcc atgcccccat ctttaccatg tctgtggagg ttgatggcaa 1560
ttcattcgag gcctctgggc cctccaaaaa gacggccaag ctgcacgtgg ccgttaaggt 1620
gttacaggac atgggcttgc cgacgggtgc tgaaggcagg gactcgagca agggggagga 1680
ctcggctgag gagaccgagg cgaagccagc agtggtggcc cctgccccag tggtagaagc 1740
tgtctccacc cctagtgcgg cctttccctc agatgccact gccgagaacg taaaacagca 1800
ggggccgatc ctgacaaagc acggcaagaa cccagtcatg gagctgaacg agaagaggcg 1860
tgggctcaag tacgagctca tctccgagac cgggggcagc cacgacaagc gcttcgtcat 1920
ggaggtcgaa gtggatggac agaagttcca aggtgctggt tccaacaaaa aggtggcgaa 1980
ggcctacgct gctcttgctg ccctagaaaa gctttttcct gacacccctc tcgcccttga 2040
tgccaacaaa aagaagagag ccccagtacc cgtcagaggg ggaccgaaat ttgctgctaa 2100
gccacataac cctggcttcg gcatgggagg ccccatgcac aacgaagtgc ccccacccccc 2160
caaccttcga gggcggggaa gaggcgggag catccgggga cgaggcgcg ggcgaggatt 2220
tggtggcgcc aaccatggag gctacatgaa tgccggtgct gggtatggaa gctatgggta 2280
cggaggcaac tckgcgacag caggctacag tgactttttc acagactgct acggctatca 2340
tgattttggg tcttcctaga gcgtctaaaa gtattgcaca caaaatcaac tttttactcc 2400
aatttcctcc aactccaaaa cccaaagtgt ccgtgctgtg tccctgtgct tcactgggtt 2460
tctcaaccgt ggcttttcac cgcagcttgt ctgaaactct tagcctgcag aatttaagac 2520
aatggcagtt tttatcgtga tttgcctttg aacttggtcc tattgaagtt cacaataagt 2580
ggaaaacaat ttttcagag aatgtatttt tgtgcagaat tgcacagaat tctagagaca 2640
gcgttgttcg gcatcaaggc aaaagcccac ctttgctttt tatggaaagc attactttat 2700
ttaaagagac agacaatgac gcattttaat ctacctttgt cttaatttac agcaggtttt 2760
gtatgaattt ttaacctttt aacaaactcc caaatctggt tgatgccttt gacagtgatg 2820
aaaacgattt caccacatct gaatccagag aaaccggctt tttttcttat tgcgagcatg 2880
ttaaaacgtt gggaacatgt ggggaattgt atattgcgct gaattaactt ctcccgcctc 2940
ttgtaatgct ctggtggggtt cttgtttggg aatgcgatat tttgtggctg gtttagctag 3000
agagtgaact ctcaaaggta tcaaaactgt gcttccatta ttagtgcaag aaacagacag 3060
gctttaaggg gtagatgacg tgaaattttg caagtcttaa ttacagctgc agatgcatgg 3120
gattctggat ttttttgttg ctttttagtt taatgggact ttaaaagtaa ttgaggagaa 3180
agaaccgtga tgttccctgt ttctccagta aaggactggc ttttgcttgg cagaggtgg 3240
tgctgctggg tgtgcagctg ccacagactc caaaggcgta gaagtttgtg ccaacacacg 3300
gagtcattct ggctctctgc tgaggcccct gttttctggc aggtgccctc cttggaaact 3360
ggttttggct ctgatcagcg gttctttttg cagcaaagcc tgcatctgtg ttgacttgca 3420
```

```
agattttgcg tttattcagg caaaaactgg tcaaaatggt tactacatga tttgttccca 3480
gaggtttgaa acattcagtg aaactttta aaactttgat tgcatgatgt atttttttt 3540
tagaaagtta ttgtttgaga ataatgtctt tttataccag gaaaatagtt atcctgaatg 3600
acgttgaaaa ctccccctcc cctttatttt ttttaatca atacatgtga aagtaacaaa 3660
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                  3690
```

<210> 327
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (701)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (709)
<223> n equals a,t,g, or c

<400> 327

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aattcggcag agtgcgacct caacgccagg cggttacttt gctgctcctc ccgctcgcta 60
tgtcaacgtc cactagctgc ccgattcccg ggggccggga ccagctgccc gactgctaca 120
gcaccacgcc gggggggcacg ctatacgcca ctaccccgg aggcaccagg atcatctacg 180
accgaaagtt cctgctggag tgcaagaact cacccattgc ccggacaccc cctgctgcc 240
tccctcagat tcccgggggtc acaactcctc caacagcccc tctctccaag ctggaggagc 300
tgaaggagca ggagacagag gaagagatac ccgatgacgc acaatttgaa atggacatct 360
aatccagtgc agatgacctg gcatgtggag ttacagaggg atccctcatg ccactgctgc 420
caccacctct tcctggggca tccaanagcc agctggcctc atctaatctg gaagggagtg 480
acttgttagt tccaggcctc ctttagttct gaggcagcta gaccagggat aggagtgggc 540
aacttgccaa gcccttaact ctacttcctc ttcagtctgt ggtactcctc ctaaccctaa 600
accctctatg ctcagggggct ggaactgggg aatggagtaa gtcaccttct gactgcttag 660
taaacattca aagaaaaaaa aaaaaaaaaa aaaaaaacct nggggggggnc cccgtaccc 719
```

<210> 328
<211> 989
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (943)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (982)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (984)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (986)
<223> n equals a,t,g, or c

<400> 328
gcggtgcgsa ggctctgctc ggatcgaggt ctgcagcgca ttcgggagca tgagtgctgc 60
agtgactgca gggaagctgg cacgggcacc ggccgaccct gggaaagccg gggtccccgg 120
agttgcagct cccggagctc cggcggcggc tccaccggcg aaagagatcc cggagntcct 180
agtggaccca cgcagccggc ggcgctatgt gcggggccgc tttttgggca agggcggctt 240
tgccaagtgc ttcgagatct cggacgcgga caccaaggag gtgttcgcgg gcaagattgt 300
gcctaagtct ctgctgctca agccgcacca gagggagaag atgtccatgg aaatatccat 360
tcaccgcagc ctcgcccacc agcacgtcgt aggattccac ggctttttcg aggacaacga 420
cttcgtgttc gtggtgttgg agctctgccg ccggaggtct ctcctggagc tgcacaagag 480
gaggaaagcc ctgactgagc ctgaggcccg atactaccta cggcaaattg tgcttggctg 540
ccagtacctg caccgaaacc gagttattca tcgagacctc aagctgggca accttttcct 600
gaatgaagat ctggaggtga aaatagggga ttttggactg gcaaccaaag tcgaatatga 660
cggggagagg aagaagaccc tgtgtgggac tcctaattac atagctcccg aggtgctgag 720
caagaaaggg cacagtttcg aggtggatgt gtggtccatt gggtgtatca tgtatacctt 780
gttagtgggc aaaccacctt ttgagacttc ttgcctaaaa gagacctacc tccggatcaa 840
gaagaatgaa tacagtattc ccaagcacat caaccccgtg gccgcctccc tcatccagaa 900
gatgcttcag acagatccca mtgsccgcca accattaacg rgntgcttaa wgacctccga 960
tctttcgncc caaaaaaaaa angngnatt 989

<210> 329
<211> 434
<212> DNA
<213> Homo sapiens

<400> 329
ctccagacga atagctttcc agttcttctt acccagggct tagaaagtaa cgattttgaa 60
atgctaaata aagtacttca aactaggaat gtaaacctta taagaagac tgtattaagg 120

```
atgcccctgc atactattat tccgttgtta caagagctta caaagaggtt acaaggacat 180
cctaatagtg ctgtgctaat ggttcagtgg ctaaaatgtg tgttaacagt tcatgcatca 240
tacctgtcca cgttgcctga cctggtaccc cagctgggga cactctacca gttaatggaa 300
agcagagtca aaacttttca gaaactttca caccttcatg gaaagcttat tcttctaatt 360
acacaagtaa cagcatcaga gaagacaaag ggagcaactt cccctggaca gaaggcaaag 420
ttggtgtatg aagt                                                  434
```

```
<210> 330
<211> 696
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (643)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (657)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (685)
<223> n equals a,t,g, or c

<400> 330
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```
aattcggcac gagccaccct ggacgaagcc accccaccc tcaccaacca aagcccgacc 60
ttaaccctgc agtccaccaa cacgcacacg cagagcagca gctccagctc tracggaggc 120
ctcttccgct cccggcccgc ccactcgctc ccgcctggcg aggacggtcg tgttgagccc 180
tatgtggact ttgctgagtt ttaccgcctc tggagcgtgg accatggcga gcagagcgtg 240
gtgacagcac cgtaggcagc cggagaatgc agcccaagca gggcctggca tggggcagga 300
cagggtccag ccttttccta acatctgcct gtgccacaac ggccagcagg tgccccatcc 360
tctgcccaca gcaractctg tcccatggct ctccgggcag tagagtgtgt gagtgcagac 420
tggacctgtg gttcatacct tgtcaccacc cgggaagctg aaggccactt yctcccagat 480
ggcctcagca ggaccatcgm cctttctcag agcagagggc caggtataga aaccgcagtg 540
ggcctgcaag ccgcccgags ctycccagca gcctcctaca gagcaggaag agggcgccct 600
gttgaaccct gagtgtttgc aggcccagca gaccctgctg ttnccaagcg caccctngct 660
ttcgaacatt aacttcctta acttngggac agtagg                          696
```

```
<210> 331
<211> 541
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c
```

<220>
<221> misc feature
<222> (532)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
<223> n equals a,t,g, or c

<400> 331
ccacggtgtc ttctaccacc tggccaagag gctcacgggg atcacgtacc tccgtgtccg 60
cagcctgccc ggagaggacc tgagggcccg tkttagctac aggctgctgg gggtcatctc 120
actgctgcac ctggtgctgt ccatggggct gcagctgtac ggtttcaggc agcggcasga 180
ngccaggaag gagtggaggc tgcaccgcgg cctgtytcac cgcaggcctc cttggaggag 240
agagccgttt ccagaaaccc cctgtgcamc ctgtgcctgg aggagcgcag gcacccaaca 300
gccacgccct gcggccamct gttctgctgg gagtgcatca mcgcgtggtg cagcagcaag 360
gcggagtgtc ccctcctgcc gggagaaagt tccctcccca gaaagctcat ctaccttcgg 420
cactaccgct tgaaccggcg cccgggttgg gccttggaca caaattgaac tctacgggaa 480
ttctgaaacg cccaagattt attctccagg atttaacctt gcttgccaaa antttaaaac 540
n   541

<210> 332
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<400> 332
ggnacggaaa agcgcgagaa gcggctcggt tcccaccacg gagaggcggg agtnagtcaa 60
ctgacaagcg ctggggacag tggcgtcctt gtcttgcctt tgtcgctccc gccccgctct 120
tccctggctg ggctggcgga ggccttgctg atgaacctga ctgagggtcc cctggcgatg 180
gcagaaatgg accctacaca gggccgtgtg gtctttgagg acgtggccat atatttctcc 240
aggaggagtg ggggcacttg atgaggtcag agattgctgt accgtgatgt gatgcttgag 300
aattt   305

<210> 333
<211> 445
<212> DNA
<213> Homo sapiens

<220>

```
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c


<400> 333
ggtttgccaa aaantgtttg tacctctggg ccatattgca gaaccctgcc cttctttgtt 60
gactgaggaa agctcgctcc ctgcccaggt ttttcattgt tgatcgaaat taacaccagg 120
tggtgaatag agcccctsct aaggttgctc aggataaatc atttattaaa taggtctgct 180
tatcaggagg ggcgtgaagg ctcccaaaag gaaatgctgg cacctgggcc cagaagccag 240
ggccttytaa ctcctggggt tgatttcttc agtgaagttg caccctacaa agggaatatg 300
gccmaagcgg gcacttcaac tggaaggctg rtatcaggcg rttagacagc catggcattt 360
ctggcgttta gtctgggaat gggttggtag aggaggtggg acttatatng agggacttac 420
cagttccccg tttggatttt ggatg                                      445


<210> 334
<211> 317
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c


<400> 334
gaaatcttgt ctgttggaga agcaattttt ttcaactttg taacagagac ttgacatttt 60
taaattttaa aagatgatgg actagactca agtatttttn aggactgtcc caatcataag 120
tctgaaggat ttcagtgctt atcataacat ttgacataca gttggcactt ggtaggtact 180
gaatcaatga ataggagtta ttggttgcct attcagaggc ttgtgggagt tgtcatcccc 240
attgcagaga gccagttggt gaatcagcaa ggtttccatt tatgctgctc ccctccaccc 300
agtcccctgg agggact                                              317


<210> 335
<211> 1524
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (1440)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1441)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1511)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1523)
<223> n equals a,t,g, or c

<400> 335
tctcccgggc tgcaggaatt cggcacagaa ctgccgactc atcttttcaa aagcaaaacc 60
atctgtatta gccttgtgcc ttctcaattt ggaagtggaa actttgaaat ctgttgaatt 120
actggaaatt ctcttgctag ttaaaaaaca ttccaagatt aatgacactg agttcttcta 180
ctggagagag ttggtttcta aatgcctagc cgagtattct tctcctgaat gttgcaaacc 240
agatcttaag aagttggttt ggatcgtttc aaggcgcaca gcccagaacc tccacaacag 300
ctactatagt gttcctgagc tgccaacgat acctgagggg ggttgttttg atgaaagtga 360
aagtgaggac tcttgtgaag atatgagttg tggagaggag agtctcagca gctctcctcc 420
cagtgatcaa gagtgcacct tctttttcaa cttcaaagtg gcacaaacac tgtgctttcc 480
atcttagaaa tctgattgtt ctgtcagaat ttatatttac aggtttcaaa gcaataaatg 540
ggggaatagg tagtttcctg gtttagcccc catctagtca ggaattaata tactggaata 600
cctaccttct atttgttatt cagatcagat ctggcctatt ttcatattta tcctaagcca 660
tcaaatgggg tagtgcctct taaaccatta acagtacttt agacattggc actttatttt 720
tctcgtagat ctttagctac tttggggagg agggaaggtg ctgatacctt caatttgtta 780
ctttttcaaga ttttttaaaaa taactagtgt agcttatctt aaacatttta taaaaccttc 840
agatgtcttt aagcagattg gaagtatgca agtgcttcct tagcagggac agtggataat 900
ccttaatggt ttatcataga tttcacccctc cccccttctc agaagagtga gtatgctctt 960
aaatgtcaaa cacattttttg ttgttttgtt ttttaaatga tcagtgtcta tttgatgtga 1020
tgcagatctt ataaatttgg gaattataat attgacattt ctgtgatttt tatatatgta 1080
atgtcttaat tgagatttct gttaaggcag aaataattag ctagggctc ttagttttca 1140
ttcctattgc ccaagtattg tcaaactatg gtattatttt aatgttactt taaaaatcca 1200
taatctgcta gttttgcatg tacttatatg aaaacagtgc agtaagttga aaactcagta 1260
tctatggaat tgataaatgg tgatctggtg kagatattta tcgcatttct tatattaaaa 1320
aatgctgcmt gattacrttt awttccktgg aattwcaytt cmgaakaggg rttgtatatg 1380
gtgccaagat tgaatatgaa gaacccgagt gttgagatat agtttaagca atctggtggn 1440
ntcagctaga tgggctatta cttgaatgag attgcaggat ttacttataa tgttactgaa 1500
cttaagctaa ntgtttactg ggna                                         1524

<210> 336
<211> 306
<212> DNA
<213> Homo sapiens

<400> 336
atatatacgt ggcgtaaaat gtacatgaaa taacaagtca ctactcaaaa agtacatttt 60
ttttctcctc agagccttat tagcaattgg caatcttaaa atttcatctc ctaagcaggg 120
tccttatcag atattccttg accccctat gttaagtgtc ttagccactc attgttaagc 180
caactgctaa aatcttagaa aaatatttca gccttctcct accccatccc ccaccccac 240
aagcttctag cttcttctac ctacagcaaa tgttaaaact ggtcagaagt tatattattt 300
actctg                                                            306
```

```
<210> 337
<211> 291
<212> DNA
<213> Homo sapiens

<400> 337
atgcaaataa aatcaagtca tagttaaact tgcttatgtc aacgattctg ttcttgcaag 60
acctacctgg cctcaagaga aattattttc cagggcccaa cacattggtg ttttatcagc 120
acctaattga cctgggggaaa gcagaatgcc taactccagc ctgtggtatt ttgttatggc 180
aggctgagca gactaataca gactttaata tacagactaa aagtaaaggg atggagaaag 240
ataccccctag tcaaaataaa gaaagtagtt atgttaatct aagacagagc t         291


<210> 338
<211> 1264
<212> DNA
<213> Homo sapiens

<400> 338
ggcacgagtc gcgaccctgg tccggacctg acctgaattg cgaccccaac ctggactgct 60
cccctgaccg caaccccctac ccccgcccac cagtatggcc cggcacgtgt tcctaacggg 120
gcccccagga gttggaaaaa caacattgat ccataaagcc agtgaggttt taaaatcctc 180
tggtgtgcct gttgatggat tttataccga agaagtcaga cagggaggga gaagaatagg 240
attcgatgtc gtcacgttgt ccggcacccg ggggccttta tcgagagttg ggttagagcc 300
tccacctgga aaacgtgaat gccgagttgg gcagtatgtg gtcgacctga cttcttttga 360
gcagttggca ctacccgtct tgaggaatgc cgactgcagc agtggcccag ggcaaagagt 420
gtgcgtcatc gatgagattg ggaagatgga gctcttcagt cagcttttca ttcaagctgt 480
tcgtcagacg ctgtctaccc cagggactat aatccttggc acaatcccag ttcctaaagg 540
aaagccactg gctcttgtag aagaaatcag aaacagaaag gatgtgaagg tgtttaatgt 600
caccaaggaa aacagaaacc accttctgcc agatatcgtg acgtgcgtgc agagcagcag 660
gaagtgaaga cacgtgcatt cctgccttcc gtgaaggagt gcccagttca agaggagcct 720
gatggagccc tgcctgtcga ggctgtatgc ctatggggtt atggaacctt gtgggctttt 780
ctagagaaaa ctcaacagct gtttcccata aaatgtttaa aagatcaaat tagccttaat 840
gctggattgt ctgtacaaga ttaactatcc attgtggctt atctatgctt aaagatttct 900
tgtttatttc ctcttgcagt catgcacatg atttgggtaa actgtgagat gagaaatggt 960
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aggtgcagct tcagcctcat gcaacttaaa gtgataacag ttatttgatt ttttaaaaaa 1140
tattattcca aaagaaaacc attttaggtc atctccccca actctgtttg cttactgctt 1200
aataaatata aaaataaatc tgatggttac agamarkaaa aaaaaaaaa aaaaaaaaaa 1260
aaaa                                                           1264


<210> 339
<211> 759
<212> DNA
<213> Homo sapiens

<400> 339
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tttgatgtca gtattggcgg tcaggaagtt ggccgcatga agatcgagct ctttgcagac 120
gttgtgccta agacggccga gaactttagg cagttctgca ccggagaatt caggaaagat 180
```

```
ggggttccaa taggatacaa aggaagcacc ttccacaggg tcataaagga tttcatgatt 240
cagggtggag attttgttaa tggagatggt actggagtcg ccagtattta ccggggggcca 300
tttgcagatg aaaattttaa acttagacac tcagctccag gcctgctttc catggcgaac 360
agtggtccaa gtacaaatgg ctgtcagttc tttatcacct gctctaagtg cgattggctg 420
gatgggaagc atgtggtgtt tggaaaaatc atcgatggac ttctagtgat gagaaagatt 480
gagaatgttc ccacaggccc caacaataag cccaagctac ctgtggtgat ctcgcagtgt 540
ggggagatgt agtccagaca aagactgaat caggccttcc cttcttcttg gtggtgttct 600
tgagtaagat aatctggact ggcccccgtc tttgcttccc tgcctgctgc tgccccattt 660
gatcaagaga ccatggaagt gtcagagatt cagaatccaa gattgtcttt aagttttcaa 720
ctgtaaataa agttttttg tatgcgtaaa aaaaaaaaa           759
```

<210> 340
<211> 2639
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1651)
<223> n equals a,t,g, or c

<400> 340
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tgttcttatt gatgactttg tggaatttgc acgccctcaa attgctggga caaaaagtac 180
aacagtgtag cactaaagga accttctaga atgtacatag tctgtacaat aaatacaaca 240
gaaaattgca cagtcaattt ctgctggctg gactgaactg aagatcaatc ctcacaattc 300
agactgaggg ttgagacaaa actttaagga tacatcttgg accatatcgt atttcattct 360
tctaatggtg gtttgggctt gtcttctagt ctgggccgct ctaaacattt ataattccaa 420
cattgtggat ttcatcttat atctgtggac catcctagtt tattctccca taagtcttag 480
aagctttatg gtgattattt tgaggttttc attctcgcat aaagcacaat gctgtcttca 540
tcagaaaaca gttggcataa gaattaaaca tatgaacatc acaaacaat ttataaaaac 600
ttcttaaata tacgctttgg gctagttgca aagactatgc taatagcact tccagtgaga 660
gtgatatatt taagtgtact ggatctggaa tggtgttttg gtttgggggg aatytttttt 720
tttcctggca aatcacatrt gttgttgatg tgagtatctg atgaaaaamc aatgtcagaa 780
taaccgacat gaaaatttt taggataact tggtgcctac ctgaaaaatg tattgtgttt 840
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ctcctgtcta cattatgcac tacataattg gacttcatta tgcttttgaa atgcttatct 1020
gcctgtcaca taagttaaac tatttaattt gttttgaatg ttttggattg ctacacaata 1080
caatattcta aatttaggca tgagggtttt tttgtttat ttttactttt tttttgtcat 1140
```

```
cgcactatgg aacacaaatg gaattctctt aatttataag aagatagttg cagttaaatt 1200
ttgaaaatgg ttgtaatgag ccatgaagtt caatctttat aatataggta ctgctctttc 1260
agacaaatag tccattttcg atgacttatt attttgttga aattgcttta actgctaatc 1320
actgtggttg ccaaatattt acttcaggag caaagatttt caaacaagca tacacgatgc 1380
aaaataccaa tctggcttct agtctcttta ctgttttcgt ttcactcaga ttagctcagt 1440
tttctcatca aagcagaatg ctatcttgta tgtatttttt tcattacaag ccccatgagc 1500
tgcttttatg ctgaaaatgg tcatttccct gttcacttac tgacatgtga agaagggttt 1560
cttgctttct taaacatttc cgtaaggcag gctagaaatg taatacttca aatgtttgat 1620
gattatggtc ttttgatagg aatagattct ncttgggata tatatccagg cactctctaa 1680
ggtctagggt tgatattaac aaaggaatgt acttagaata gcagtacatt ttatgcaaat 1740
atggraatta ttttaagaaa caatgacata tcaaaactgc tttttacatg attttgaaat 1800
agactagaaa gctttcccta tagacatatt aatattccaa tcataacttt aattcaagaa 1860
tgcagtttta ccaaaagaaa aatttgaaaa tttctattca ggctactgga attggttatt 1920
aaaagaaaaa ggaaaaagaa gaatcttgct gctttcagta tttcctgatt tttttgtaaa 1980
tataaagagg aacttcaatt atgaaaaatt tttaaaagat atatatatct atatatctat 2040
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ttgattaatt cacatatgct gtgttttgaa atgagatccc attagctttt tttttttttt 2160
tttttcaata taaagtgttt tctttaaaag tcatattggt tcgtggccta gtgccttgga 2220
ttttacatat tttyttttt aaatgcaaaa ccttttcaac aaaatagtgt ttgtcatcag 2280
gttggtacta aacatttata attactgtgt aattataaac aaaaatacat aaagctttga 2340
atataattat gtagcataaa agttaaggtt gttcactatg atggcatctt agaattaaac 2400
aaaacttttta ctagggctga aaagagaaga ctgatttaat gtggtgtgat tattctgaag 2460
ataaatgtct ggctacaggg aatattttgt actaaaaaat gattacacat atggctgtgt 2520
gtgtttgagt ctgtgtctgt gagagagcca gagagagtga gagagattga cagagaaagg 2580
gagagacaca cacacgcccc ttgaaacact taggagttaa agcaattcaa gggtcgagc 2639
```

<210> 341
<211> 1824
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1807)
<223> n equals a,t,g, or c

<400> 341
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taatacctta caagaggtat gtkttttata ttaaaagttt caataaggca tttcttataa 120
ttaagtttgt ttatgtttga taaagaacac aatataaata caattttaag tctttgtaag 180
tgtttatgtt ggtataaatc tctgtgcatt gcttaaagtt tagaaataat agtagtttaa 240
aatacagagg tgccagccaa gccatactta ctcttccagt tgtcattggc caccctgaat 300
gatgaatcta aagaagtatc attgtgaaca agggaaatgt cagtcaagaa atattccttg 360
gaatataaaa caaagccttg actctgctgg cataggtctg agttttcata aactggagct 420
tcacaaatct gtaaaactca taatattaat gggtgctttt tcagaaatta tagaatagct 480
gccacctctt ctaaattaag cattgactgt catcagtatt agatttagcc agatagtata 540
agtgttatgc aggcgtacct cattttattg tgctttgcaa acattgcatt ttttacaaa 600
ttgaaggttg tggccaccct gtgttgagca agtctgttgg tgctattttt ccaacatgta 660
ttcacttcat gtctgtgtga cacatactgg taaattctca caatatttca gactttgtca 720
ttatatctgt tatggtgatc tgtgattagt gatcttcgat gttactactg tgattgtttt 780
agggcaccac agggcacacc cagataaggc agtgaacyta attgataaat actgtgtgtg 840
```

```
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cctgagacac aacagtattt aaattaggtc aattaataac cccacagtgg cctctgagta 960
ttcaagtgaa tggaaaagtc acatccctct cattttaaat caaaacctag acatgattaa 1020
gtttagtgag gaaggcatgc tgaaagctaa aataggcctc ttaaggcaaa cagtaggcca 1080
agttgtgaat gcaaaggaaa agttcttgaa gaaaaatcaa agtgctactc cactaagcat 1140
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cagcaagtgc tgatgtagaa gctgctgcaa gttacccaga agatctagct aagatcattg 1440
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ccgtctagga ctttcataac tagagagaag acaacatctg ctttgaaagg acatgctaac 1560
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tctgataatc ctaggaccct tagaatttgc tgaatctact ctgcctgtgc tttataaatg 1680
gaacaacaaa gcctggatga cagcatgtct gtttacatca tagtgtactg agtattttaa 1740
gcccactgtt gggaccgact gctcaggaaa aaaaaaaaaa aaaaaaaaa aaaaaaaag 1800
ggcggtncgc tcgcgatcta gaac                                      1824
```

<210> 342
<211> 4531
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<400> 342

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ctccgtttcc ccctctcccc ctcctccgcc gaccgagcag tgacttaagc aacggagcgc 180
ggtgaagctc attttttctcc ttcctcgcag ccgcgccagg gagctcgcgg cgcgcggccc 240
ctgtcctccg gcccgagatg aatcctgcgg cagaagccga gttcaacatc ctcctggcca 300
ccgactccta caaggttact cactataaac aatatccacc caacacaagc aaagtttatt 360
cctactttga atgccgtgaa aagaagacag aaaactccaa attaaggaag gtgaaatatg 420
aggaaacagt attttatggg ttgcagtaca ttcttaataa gtacttaaaa ggtaaagtag 480
taaccaaaga gaaaatccag gaagccaaag atgtctacaa agaacatttc caagatgatg 540
tctttaatga aaagggatgg aactacattc ttgagaagta tgatgggcat cttccaatag 600
aaataaaagc tgttcctgag ggctttgtca ttcccagagg aaatgttctc ttcacggtgg 660
aaaacacaga tccagagtgt tactggctta caaattggat tgagactatt cttgttcagt 720
cctggtatcc aatcacagtg gccacaaatt ctagagagca gaagaaaata ttggccaaat 780
atttgttaga aacttctggt aacttagatg gtctggaata caagttacat gattttggct 840
acagaggagt ctcttcccaa gagactgctg gcataggagc atctgctcac ttggttaact 900
tcaaaggaac agatacagta gcaggacttg ctctaattaa aaaatattat ggaacgaaag 960
atcctgttcc aggctattct gttccagcag cagaacacag taccataaca gcttggggga 1020
aagaccatga aaaagatgct tttgaacata ttgtaacaca gttttcatca gtgcctgtat 1080
ctgtggtcag cgatagctat gacatttata atgcgtgtga gaaaatatgg ggtgaagatc 1140
taagacattt aatagtatcg agaagtacac aggcaccact aataatcaga cctgattctg 1200
gaaaccctct tgacactgtg ttaaaggttt tggagatttt aggtaagaag tttcctgtta 1260
ctgagaactc aaagggttac aagttgctgc caccttatct tagagttatt caagggggatg 1320
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```
gagtagatat taatacctta caagagattg tagaaggcat gaaacaaaaa atgtggagta 1380
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tgaattgttc cttcaagtgt agctatgttg taactaatgg ccttgggatt aacgtcttca 1500
aggacccagt tgctgatccc aacaaaaggt ccaaaaaggg ccgattatct ttacatagga 1560
cgccagcagg gaattttgtt acactggagg aaggaaaagg agaccttgag gaatatggtc 1620
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tgtgttttat gatacattac agccaaatta tttgttggtt tatggacata ctgccctttc 1860
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ggtattgatc ttttcacaaa taacagaact gagaaacttt tatatataac tgatgatcac 2040
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agaagtgtta tcttcattaa atgttttttg taagtggtat tagaaagaat atgttttca 3540
gatggttctt taaacatgta gtgagaacaa taagcattat tcactttag taagtcttct 3600
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cactaagcac ttggtatttg gccatctcca ttctgagcac caaacggtta acacgaatgt 4020
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atggcattta tggatttaag tcattagatt ttcaactgac attaattaat ccctcttgat 4140
tgattatatc atcaagtatt tatatcttaa ataggaggta ggatttctgt gttaagactc 4200
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ttaaattgtt atcaaacaat ttttataatg aaatctatct tggaaaatta gaaagaaaaa 4320
tggcaaggta tttattgttc tgtttgccat aatttagaac tcacacttaa gtattttgta 4380
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```
gttttacatt cctttttaac ccattcagtg gagaatgtca gcttttctcc caagttgtat 4440
gttaagtcta ttctaatatg tactcaacat caagttataa acatgtaata aacatggaaa 4500
taaagtttag ctctattaaa aaaaaaaaaa a                                4531
```

<210> 343
<211> 584
<212> DNA
<213> Homo sapiens

<400> 343
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ttttaattc ttgaaacttg gctttccata acatggtaca tgcttcagga ctacatatga 120
cccagagagc aaggtggctg aactatagtc tggaagccct caggtaaaga ggcacatctc 180
accactcatt ggttaaacaa tgcatcatag cgagcacttt tcctttccct ggagaatggg 240
atgtgaagca gtagaccgca gccacgccga tggttataca gtgaagaaga cttcacctct 300
tcctattgag tttgcttgga atgctgacag catcaggcaa ctctgaactg aacatttgct 360
ttgtcagaaa atatcttttt ttttactttg aagtttggca accttcatgt taccccaaag 420
caaaaccatt gtgtcaggag tcaaacaaat gtttagaaag caaacatgac gtctctattg 480
tacaacctcc tttctcttgg ctgtttaaag gatgtacttc gtgtattaaa gggtacttta 540
tgttgaagta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa                  584
```

<210> 344
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<400> 344
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ggcacagggg attacaggca tgtgccacca tgccnggcta attttgtatt tttagtagag 60
acggggtttc gccatgttgg tcagactggt cttgaactcc tgacctcagg tgatccgccc 120
gcctcagcct cccaacgtgc tgggattaca ggtgtgagcc accgtacctg gyagaaaatg 180
tactttcttt ctcagaaata cttttaaaaa aaattgaagg gtgaggagaa aaacatcttg 240
gagaagagga cccattaaaa ctttaaatat ctgtgggaac catttttcct gattttccct 300
ttttaacat catggcaaag atgggttttt ttccaacaaa atttaattta atatctttcc 360
acttgaagat tttaggtttg ttttcaatac ttaatgaata taaaactaaa ggagaaaagc 420
caacctgaaa taatttaaac tttatatgaa catttcgata agagtttgtg gatttttct 480
gtagataata tatttgatcc rgaactcaag tgcatggaaa catgattttg attttaaaa 540
tctaaaaaaa aaaaaaatta aaatcatgct tccctctatt gcagtatcag ttatttagtc 600
acagaatggt attttatgta aattaaaatt aggtgaatgc aatgcaggta actggttttg 660
gaatgggaat gtgcagtgct ttatgtttgg ggagttggag cagggtatct tttcatcaat 720
tagaaggaaa rtttgaaact tctgattacc tttatgttgg gttcccctat tatttgtc    778
```

<210> 345
<211> 3740
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<400> 345
gggctgctcg ctgcatctct gggcgtcttt ggctcgccac gctgggcagt gcctgcctgc 60
gcctttcgca acctcctcgg ccctgcgtgg tctcgagctg ggtgagcgag cgggcgggct 120
ggtaggctgg cctgggctgc gaccggcggc tacgactatt ctttggccgg gtcggtgcga 180
gtggtcggct gggcagagtg cacgctgctt ggcgccgcag tgnatcccgc cgtccactcc 240
cgggagcagt gatgttgggc aactctcgcc cggggcctgc gacccgcgar gcgggctcgg 300
cgctgctagc attgcagcag acggcgctcc aagaggacca ggagaatatc aacccggaaa 360
aggcagcgcc cgtccaayaa ccgcggaccc gggccgcgct ggcgkkactg aagtccggga 420
acccgcgggg tctagcgcac agcagaggcc gaagacgaga cgggttgcac cccttaagga 480
tcttcctgta aatgatgagc atgtcaccgt tcctccttgg aaagcaaaca gtaaacagcc 540
tgcgttcacc attcatgtgg atgaagcaga aaaagaagct cagaagaagc cagctgaatc 600
tcaaaaaata gagcgtgaag atgccctggc ttttaattca gccattagtt tacctggacc 660
cagaaaacca ttggtccctc ttgattatcc aatggatggt agttttgagt caccacatac 720
tatggacatg tcaattgtat tagaagatga aaagccagtg agtgttaatg aagtaccaga 780
ctaccatgag gatattcaca cataccttag ggaaatggag gttaaatgta aacctaaagt 840
gggttacatg aagaaacagc cagacatcac taacagtatg agagctatcc tcgtggactg 900
gttagttgaa gtaggagaag aatataaact acagaatgag accctgcatt ggctgtgaa 960
ctacattgat aggttcctgt cttccatgtc agtgctgaga ggaaaacttc agcttgtggg 1020
cactgctgct atgctgttag cctcaaagtt tgaagaaata tacccccccag aagtagcaga 1080
gtttgtgtac attacagatg atacctacac caagaaacaa gttctgagaa tggagcatct 1140
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agaattaagt ttgatagatg ctgacccata cctcaagtat ttgccatcag ttattgctgg 1320
agctgccttt catttagcac tctacacagt cacgggacaa agctggcctg aatcattaat 1380
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<210> 346
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c
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<400> 346
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gacgtccagc gtgtccctca caggaaaggc ctccacccag ccagcaaatg cggcagggat 180
gcctggcttt gccaaagagt gaaagcctcc ccagtgggat ctgccgtagc gcacagggga 240
gcagacggag ccgcggcgca ggggcagcgg gacctcagcc accgctggag agagcggatg 300
ttctgaacgt ttcccctgga cgctgcctgc cacaccagtg gaagctgagt tcatgctgta 360
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agacttggct gttcantgag tcattcgaga ttcacagaag cacttacntt gttcaccaga 420
ggacaantgg tgccggtgtt anccca   446

<210> 347
<211> 782
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (769)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (772)
<223> n equals a,t,g, or c

<400> 347
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ggagtgaccc aggtagataa caagtccggt ttcctgcaga agaggcctca tcgccagcac 180
cctggcatcc taaagctgcc gcacgtcgc tgccacaggc actggctaac ggtgcccagt 240
tattgctact tgggagcgct gggcccacta tggagaatca ggtgcaaaca ctgaccagtt 300
atctctggag cagacatttg cctgtagagc cagaggagtt gcaaagacgg gctaggcatc 360
ttgagaaaaa attcctggaa aacccagact tatctcagac agaggagaaa cttcgtggag 420
cagtgctaca cgcactacgt aaaactacct accattggca agaactgagc tacactgagg 480
gactgagcct ggtgtatatg gcagcaagac tggatggtgg ctttgcagca gtctccagag 540
cattccatga gatccgggct cgaaatccag catttcagcc acaaactttg atggactttg 600
gctcaggtac tggtctgtca cctgggctgs tcacagtatt tggggccaga gcctacgtga 660
atatatggtg tggacagata acttgcatgt ggtttgcaga aaactctgaa aggggtyaaa 720
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·ta   782

<210> 348
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (369)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 348
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gtgagctggc tgttgaacca taggnatctt taaattgtgg cagtattagt actgntacaa 180
atcagggttc acccttgtct gttgggtacc attttcccct cttgcctcct gttatattca 240
cattttctac aactggagaa ttgatgggat ctgaagggca aatgtatttt ctctttggcc 300
accgtggatt tcctgtactc tgtgtgtttt taatgaaaga gagtttgtga agcaacttac 360
agacatggnt tatttgaaag ctcttctgtt ttattaaaat agaggttcag aaagcagttn 420
tgtatttcat tcagagtcc                                                439
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<210> 349
<211> 2356
<212> DNA
<213> Homo sapiens

<400> 349
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gctcttggct gtggctctcc tgccatggac ctgcgcttct cgggcgctgc agcatctgga 120
cccgccggcg ccgctgccgt tggtgatctg gcatgggatg ggagacagct gttgcaatcc 180
cttaagcatg ggtgctatta aaaaaatggt ggagaagaaa atacctggaa tttacgtctt 240
atctttagag attgggaaga ccctgatgga ggacgtggag aacagcttct tcttgaatgt 300
caattcccaa gtaacaacag tgtgtcaggc acttgctaag gatcctaaat tgcagcaagg 360
ctacaatgct atgggattct cccaggagg ccaatttctg agggcagtgg ctcagagatg 420
cccttcacct cccatgatca atctgatctc ggttggggga caacatcaag gtgttttgg 480
actccctcga tgcccaggag agagctctca catctgtgac ttcatccgaa aaacactgaa 540
tgctggggcg tactccaaag ttgttcagga acgcctcgtg caagccgaat actggcatga 600
ccccataaag gaggatgtgt atcgcaacca cagcatcttc ttggcagata taaatcagga 660
gcggggtatc aatgagtcct acaagaaaaa cctgatggcc ctgaagaagt ttgtgatggt 720
gaaattcctc aatgattcca ttgtggaccc tgtagattcg gagtggtttg gattttacag 780
aagtggccaa gccaaggaaa ccattccctt acaggagacc tccctgtaca cacaggaccg 840
cctggggcta aaggaaatgg acaatgcagg acagctagtg tttctggcta cagaagggga 900
ccatcttcag ttgtctgaag aatggtttta tgcccacatc ataccattcc ttggatgaaa 960
cccgtatagt tcacaataga gctcagggag cccctaactc ttccaaacca catgggagac 1020
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taacatgccc tacttggaaa gatctaagat ctgaatctta tcctttgcca tcttctgtta 1140
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ggtcaagttc agttttagaa aagggagtct gttccagatc agggccagaa ctgtgcccag 1260
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gttttgctgg tgatttaacc agtgcttgga aaaatcttgc ttggctattt ctgcatcatt 1440
tcttaaggct gccttcctct ctgagtacgt tgccctctgt gctatcaatc atcttatcat 1500
caattattag acaaatccca ctggcctaca gtcttgcttc tgcagcaccc actttgtctc 1560
ctcaggtagt gatgaattag ttgctgtcac aaaaggaggg aagtagcacc caaattaaat 1620
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taatatgact agtggtcttg atgctagagt caacttactc tgttgctggc tttagcagag 1800
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ctaaggactc ctgagaattc ctgttacagt aaacaaaact aacgtaatct accatttcct 2040
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ttcaactaaa agatgaggat taagagcaag aagttggggg ggatgtgaaa ataattttat 2280
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atgaagaagt attcgc                                                    2356
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<210> 350
<211> 1219
<212> DNA
<213> Homo sapiens

<400> 350
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gcctggccgg gacaccacat tctgtaacca gggaactgaa aacagaagag cttgttcaca 180
gcaggcaaac agcctcagat acaaaataac ttacagaagt tgcttgagaa tggtgactga 240
tcgaccagat tgcttgggcc atcggaatac ctcatgtttc cctttgaaga aggtgcttcc 300
tgaggcgttt tgtttgagtg caccctgctg gtcagaggtg caagcagatg agaatccaga 360
cattgcatgt ggaggtctcc agctcaggaa agtggggagg gaaataattt tggttcttgt 420
gcaataaaag ttgaccttga ctctctgagg aagattttgc tgcttttgcc tgaagaaaac 480
agacccatct ctggaggtct caggaagggc ccagcgaaca cactctcttg gataattacc 540
acgatggcgt cagcaaacac tccaccctgt gccttttttag tccttcccgc cctcctgcct 600
ctcccttaca cccctcttaa cgactttcaa actaaaggat acatcatata ctgacaaact 660
caatgtggtc ctttcaagaa ttagccatga gtctcaaaaa ggcaataaat ggctctaagt 720
ggacaggttt gcttcaaaca agtaacatct acattttgtc ttttttttttt cagttctcct 780
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ttcaagcagg atgtctgtat tcagcattca ataatgctaa aatcccttc agcatgaaat 1140
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aaaaaaaaaa aactctgcc                                                1219
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<210> 351
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<400> 351
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tcaatggggt gcctgaagtt cagccgctga gtaaattaca taaagtagat ttcggatccc 180
tacagccagg gttacaatta tagcaagaaa tatattcagg gaaaacttyc acttatctct 240
tctttaactt atcgtggaaa taaaacarct gttttgcaga ttggactaca argacaccat 300
tgcagtggct agatttattg ktttttttagc ttcttcatct acaagcagag atggtaaacc 360
ttgcatattt ttgaaaagca tttgaagacc tnaaatnaac tggtnatg          408


<210> 352
<211> 1283
<212> DNA
<213> Homo sapiens

<400> 352
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ccaccgaaaa ttactgacga gtcaatcacc tcagatctct caagcagtcc agcctacgca  120
acagtactcc acctctgcgc ctgtgcgggg agggtaaggc ggggccagca acttcctcag  180
ctggagggag agcgcacggt ggagccgcca gttgagaagg actctgatcc ggctcagctt  240
tccaatcagc tgcggaagga gccacgcttt cgggggttgc aagatggcgg ccaccagtgg  300
aactgatgag ccggtttccg gggagttggt gtctgtggca catgcgcttt ctctcccagc  360
agagtcgtat ggcaacgatc ctgacattga gatggcttgg gccatgagag caatgcagca  420
tgctgaagtc tattacaagc tgatttcatc agttgaccca cagttcctga aactcaccaa  480
agtagatgac caaatttact ctgagttccg gaaaaatttt gagaccctta ggatagatgt  540
gttggaccca gaagaactca agtcagaatc agccaaagag aagtggaggc cattctgctt  600
gaagtttaat gggattgttg aagacttcaa ctatggtact ttgctgcgac tagattgttc  660
tcagggctac actgaggaaa acaccatctt tgcccccagg atacaattct ttgccattga  720
aattgctcgg aaccgggaag gctataacaa agctgtttat atcagtgttc aggacaaaga  780
aggagagaaa ggagtcaaca atggaggaga aaaaagagct gacagtggag aagaagaaa   840
caccaagaat ggaggagaga aaggagctga tagtggagaa gaaaaagagg aaggaatcaa  900
cagagaagac aaaactgaca aaggaggaga aaaagggaaa gaagctgaca agaaatcaa   960
caaaagtggt gaaaaagcta tgtaaggtat acagggaaca gcactctaga agctatgact 1020
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<210> 353
<211> 3229
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<212> DNA
<213> Homo sapiens

<400> 353
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atttctcaag gttataggtt ggggttctta gaactttttg tggtgtgtgt tggcctagag 180
cgactcagaa gcgttagtga gcttcaccta aaaaagctaa cctctctgct gagcgcgacc 240
ggtatgcggc gcaggatgag cctcagggct tctgttaaga gtctgtctga gaaagccggt 300
ctgcgctgtt cctcggtggc gaccttaatt atgagatgag ctaatgcttt actgacttaa 360
ccatggcgca cggggcagtg tggctcataa gccacgaacc gggaactcca ctttgtggca 420
ccgtgagatt ctccagacgg tatccaactg ttgaaaaacg agccagagtc ttcaatggag 480
caagttatgt gcctgttcct gaagatggtc cctttcttaa agcactgctc tttgaactta 540
gattattgga tgatgataaa gacttcgttg agagtcgtga tagctgttca cgcatcaata 600
aaacatccat ttatggactc ctgataggag gtgaagaact ctggccagtt gttgcttttc 660
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cgccactaat tagtgtcagt ggagtttcac aaggctttga atttctttt gggatacagg 780
attttcttta ttcaggtcaa aaaaatgact ctgagctgaa tacaaaattg agccagttgc 840
ctgacttgct tctgcaggct tgtccatttg gtactttatt agatgccaac ttacagratt 900
catagataat accaattttg catctgtgac tcagccacag aaacagccag cttggaaaac 960
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aattagtctt tctgaactg taacttttgg agccaagagc catgagaagc agccatttga 1620
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tgctccagta acatatggat cattattatt gtaatagtct catgtttaaa tgggattata 1860
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tcaattacag cccttttctg tactgagcct tggataaagg gtcaggctcc ttttagttc 2220
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taaatagtaa gctgttcttc ttaatcagaa ctatcctatt gactaataaa taatctgcat 2460
aattctactt aaggtgtgta atctctgttc tagagttagt ttttaagtaa gcttgttaat 2520
ctgccacttt gacattttgc ttaggatgtc agtagccata ttaagatgtg tagaatacct 2580
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gaaatctcac gaacctcaaa acttcattca tgtctttta caaatgagaa aaaaaaatgc 3000
attaaagatt aatactcaat ttgattatat cttgggttct gttttttaat gagtgttcta 3060
aggaaaagct tagaaaagct gctaactcct cagaagaaag catgatagtt taaggtata 3120
gggcatataa atttaggatt tgaaatatga ttttttaatt aaggtcagtc ctactcataa 3180·
actcattttc tgcaaagcat tatcatggca taaggttcta tgttcaaac        3229
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<210> 354
<211> 506
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c

<400> 354
```
gcccacgcgt ccgcccacgc gtccgcccac gcgtccgaga agttgcttag tcatgtctgg 60
ccgtggtaaa ggtggaaaag gtttgggtaa gggaggrgct aagcgtcatc gcaaggtttt 120
gcgcgataac atccagggca tcactaagcc agctatccgg cgccttgctc gtcgcggcgg 180
tgtcaagcga atttctggcc ttatctatga ggagactcgy ggtgttctga aggtgttcct 240
ggagaacgtg attcgtgacg ctgtcaytta cacagagcac gccaaacgca agaccgtgac 300
agcaatggat gtggtctacg cgctgaagcg acaggacgc actctttacg gcttcggtgg 360
ctaaggctcc tgcttgctgc actcttattt tcattttcaa mcaaargccc ttttcagggc 420
sgccamtttt ttcataaaag agcaagacat cttgktatcc tgctttggtn caaaattttg 480
ctgagaagaa gtactgggca catgng                               506
```

<210> 355
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<400> 355
```
cttacctgtt tttccagctc acccactgcc agcagagaat gctgtccagt ttcaacgagt 60
ggttttggca ggacaggttn tggttaccac ccaatgtcac gtggacagag ctagaagacc 120
gggaatggcc gtgtctaccc ccacccccag gacttgttgg cagccctgcc cctggcgctg 180
gtcctcctgg ccatgcgcct tgcctttgag aagattcatt ggcctgcccc tgagccggtg 240
gakgrgtgtg agggatcaga ccaggaggca agtgaagccc aacgccacgc tggagaaaca 300
cttcctcacg gaagggcaca ggccaaggag ccccagctgt ctctcctggc cgcccagtgt 360
```

```
ggcctcacgc tgcagcagac ccagcgatgg ttccggagac gccggaacca ggatcgaccc 420
cagctgacca agaagttctg tgaggccagc tggaggtttc tcttctacct gtcctccttc 480
gtgggcggcc tctcggtcct gtaccacgag tcatggctgt gggcaccagt aatgtgctgg 540
gacaggtacc caaaccagac tctgaagcca tccctgtamt ggtggtamct cttkggagct 600
gggtttctwa cytctcawtg yttaatcagg tgcctttgat gttcaagcgc aaggattttc 660
aaggagcagg tkgatacamc attttgkggc ggttcattcc tgattgaact ttttcttaca 720
gttgccaact tgttgcggat tt                                           742
```

<210> 356
<211> 1695
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<400> 356

```
gcccacgcgt ccgcccacgc gtcngcccac gcgtccggta gttttctctg cgcgtgtgcg 60
ttttccctcc tccccgccct cagggtccac ggccaccatg gcgtattagg ggcagcagtg 120
cctgcggcag cattggcctt tgcagcggcg gcagcagcac caggctctgc agcggcaacc 180
cccagcggct taagccatgg cgcttctcac ggcattcagc agcagcgttg ctgtaaccga 240
caaagacacc ttcgaattaa gcacattcct cgattccagc aaagcaccgc aacatgaccg 300
aaatgagctt cctgagcagc gaggtgttgg tggggactt gatgtccccc ttcgaccagt 360
cgggtttggg ggctgaagaa agcctaggtc tcttagatga ttacctggag gtggccaagc 420
acttcaaacc tcatgggttc tccagcgaca aggctaaggc gggctcctcc gaatggctgg 480
ctgtggatgg gttggtcagt ccctccaaca acagcaagga ggatgccttc tccgggacag 540
attggatgtt ggagaaaatg gatttgaagg agttcgactt ggatgccctg ttgggtatag 600
atgacctgga aaccatgcca gatgaccttc tgaccacgtt ggatgacact tgtgatctct 660
ttgcccccct agtccaggag actaataagc agccccccca gacggtgaac ccaattggcc 720
atctcccaga aagtttaaca aaacccgacc aggttgcccc cttcaccttc ttacaacctc 780
ttcccctttc ccaggggtc ctgtcctcca ctccagatca ttcctttagt ttagagctgg 840
gcagtgaagt ggatatcact gaaggagata ggaagccaga ctacactgct tacgttgcca 900
tgatccctca gtgcataaag gaggaagaca ccccttcaga taatgatagt ggcatctgta 960
tgagcccaga gtcctatctg gggtctcctc agcacagccc ctctaccagg ggctctccaa 1020
ataggagcct cccatcttcc aggtgttctc tgtgggtctg cccgtcccaa accttacgat 1080
cctcctggag agaagatggt agcagcaaaa gtaaagggtg agaaactgga tctccttggc 1140
cagggaatcc gccctctctt ttagagcctc gttcttcttt tccagctctt tgcactcacc 1200
agtaagagcc tcctgctccg ccctcttctt ctggcggtac ctagtggctg ctgtcttgtt 1260
ttgctccatt ttttcagct tcttatccag tttctcaccc tttacttttg ctgctaccat 1320
cttctctcca ggaggatcgt aaggtttggg acgggcagac ccacagagaa cacctggaga 1380
tgggaggctc ctatttggag agccctggt agaggggctg tgctgaggag accccagata 1440
ggactctggg ctcatacaga tgccactatc attatctgaa ggggtgtctt cctcctttat 1500
gcactgaggg atcatggcaa cgtaagcagt gtagtctggc ttcctatctc cttcagtgat 1560
atccacttca ctgcccagct ctaaactaaa ggaatgatct ggagtggagg acaggacccc 1620
tggggaaagg ggaaagaagg aaggaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaa                                                   1695
```

<210> 357
<211> 928

```
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (928)
<223> n equals a,t,g, or c

<400> 357
gctgcgcgcg ggcgagctgc cgcggagcac ccggcagggg ctgacagcat ggcctcgccc 60
gacccgcccg ccaccagcta cgccccgtcc gacgtgccct cggggggtcgc gctgttcctc 120
accatccctt tcgccttctt cctgcccgag ctgatatttg ggttcttggt ctggaccatg 180
gtagccgcca cccacatagt ataccccttg ctgcaaggat gggtgatgta tgtctcgctc 240
acctcgtttc tcatctcctt gatgttcctg ttgtcttact tgtttggatt ttacaaaaga 300
tttgaatcct ggagagttct ggacagcctg taccacggga ccactggcat cctgtacatg 360
agcgctgccg tcctacaagt acatgccacg attgtttctg agaaactgct ggacccaaga 420
atttactaca ttaattcggc agcctcgttc ttcgccttca tcgccacgct gctctacatt 480
ctccatgcct tcagcatcta ttaccactga tgcacaggcg ccaggccaag ggggaaatgc 540
tctttgaaag ctccaattat tggtccccaa aagcagcttc caacgtttgc catctggatg 600
acaaacgaa gatccactaa aacgtccacg ggattaacag aacgtccttg cagactgagc 660
gatgacacca cactttgttt ggacatttaa attcactctg ctgaatagga ggaagctttt 720
cttttcctg ggaaaacaac tgtctcttgg aattatctga ccatgaactt gctcttctag 780
acaactcaca tcaaagccct cactccacta atggagaatc ctagccccac taatgccaag 840
tctgtttggg grttttgcct cagctatggg cttccctaga gtaggtctag gggaatatca 900
rtccgatctt ttttttttgtt ttgtttn                                     928

<210> 358
<211> 1374
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1374)
<223> n equals a,t,g, or c

<400> 358
ggtcgtgggt gggaattgtc gcctaagtgg ttccgggttg gtggatgacc ttgagccctc 60
aggaacgaga tggcggttct ctggaggctg agtgccgttt gcggtgccct aggaggccga 120
gctctgttgc ttcgaactcc agtggtcaga cctgctcata tctcagcatt tcttcaggac 180
cgacctatcc cagaatggtg tggagtgcag cacatacact tgtcaccgag ccaccattct 240
ggctccaagg ctgcatctct ccactggact agcgagaggg ttgtcagtgt tttgctcctg 300
ggtctgcttc cggctgctta tttgaatcct tgctctgcga tggactattc cctggctgca 360
gccctcactc ttcatggtca ctgggccctt ggacaagttg ttactgacta tgttcatggg 420
gatgccttgc agaaagctgc caaggcaggg cttttggcac tttcagcttt aacctttgct 480
gggctttgct atttcaacta tcacgatgtg ggcatctgca aagctgttgc catgctgtgg 540
```

```
aagctctgac ctttttgact tcatactttg aagaattgat gtatgcctct ttgcctctgc 600
tttgtcatgc cattaagctc acaataagga agaaataaca gataagtcca ttggtggaca 660
gccttcttct cttaatcaca agattatttt cagaatttaa tctttgagga aaaggtttga 720
gaggaattat atctaagttg tgagactgag ttctatattc tggtgagtta atggggttgc 780
ctcccagctt cttataagac tcacagtata actaaacatg atatatcagc ttttgccttt 840
caatttatca atctcttaaa gagaatccaa ctttattacg attagtatat gatcaaactt 900
ccatatttgc cttgggaata atggacaaag ggaaatactc ttaattcatg aataaaaact 960
ttgcagaaaa ttagacagtg tttaattttc gaaaacttcc ctctctagac agtagatacc 1020
acctactgat ggttacatat actagggaaa ttttaaaatt aggaaatgct gatagctcat 1080
attataaatt tctaaatcct aggaagaaac gcttggagtg cttctgaata tacagaagtt 1140
ccatttaagg gcaagtttcc ccgtagatgt atcaaaatac taccaactgt aaattgagat 1200
ttaattccca aatgtattct acttgttcta aaacaatctg tccacaaata taaaactata 1260
agtaataaat tgttattttc gcacaatggg aatctctaat gtgaaaatgt attctatgaa 1320
aataattttt ttaaataaaa tgttatataa taaaaaaaan aaaaaaagaa aaan     1374
```

<210> 359
<211> 4152
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 359
```
tgggtctctc acggatctcg gcctgagggt gtgggggaga aggcctggac agcctcaggg 60
caggntgtgt tttcccacca gccgcagaga gccaggatgg acgttcctcg gacggacggt 120
tttcctgctt gggaatgttc ctgggctgtg agatccactc ttctgggcag gtggttagca 180
cctaacgttt ttccctcact tcccccaaa ttcttaagtc ctttggtcca tttcactgct 240
cggaccttga gacaacagtc attctgcctg agtctgtctt cagagagacg cccccgtgg 300
tcaggcccgc agccccggag aggcccagga gccagaggag ctggcacggc gacagcgacg 360
gcacccggag ytgagccagg gtgaggytgt ggccagcgtc atcatctacc gcaccctggc 420
cgggctactg cctcataact atgaccctga caagcgcagc ttgagagtcc ccaaacgccc 480
gatcatcaac acacccgtgg tgagcatcag cgtccatgat gatgaggagc ttctgccccg 540
ggccctggac aaaacccgtca cggtgcagtt ccgcctgctg gagacagagg agcggaccaa 600
gcccatctgt gtcttctgga accattcaat cctggtcagt ggcacaggtg gctggtcggc 660
cagaggctgt gaagtcgtct tccgcaatga gagccacgtc agctgccagt kcaaccacat 720
gacgagcttc gctgtgctca tggacgtttc tcggcgggag aatggggaga tcctgccact 780
gaagacactg acatacgtgg ctctaggtgt crccttggct gccctctgc tcaccttctt 840
cttcctcact ctcttgcgta tcctgcgctc caaccaacac ggcatccgac gtaacctgac 900
agctgccctg ggcctggctc agctggtctt cctcctggga atcaaccagg ctgacctccc 960
ttttgsctgc acagtcattg ccatcctgct gcacttcctg tacctctgca ccttttcctg 1020
ggctctgctg gaggccttgc acctgtaccg ggcactcact gaggtgcgcg atgtcaacac 1080
cggccccatg cgcttctact acatgctggg ctggggcgtg cctgccttca tcacagggct 1140
agccgtgggc ctggaccccg agggctacgg gaaccctgac ttctgctggc tctccatcta 1200
tgacacgctc atctggagtt ttggtggccc ggtggccttt gccgtctcga tgagtgtctt 1260
cctgtacatc ctggcggccc gggcctcctg tgctgcccag cggcagggct ttgagaagaa 1320
aggtcctgtc tcgggcctgc agccctcctt cgccgtcctc ctgctgctga gcgccacgtg 1380
gctgctggca ctgctctctg tcaacagmga caccctcctc ttccactacc tctttgstac 1440
ctgcaattgc atccagggcc ccttcatctt cctctcctat gtggtgctta gcaaggaggt 1500
```

```
ccggaaagca ctcaagcttg cctgcagccg caagcccagc cctgaccctg ctctgaccac 1560
caagtccacc ctgacctcgt cctacaactg ccccagcccc tacgcagatg ggcggctgta 1620
ccagccctac ggagactcgg ccggctctct gcacagcacc agtcgctcgg gcaagagtca 1680
gcccagctac atcccttct tgctgaggga ggagtccgca ctgaaccctg gccaagggcc 1740
ccctggcctg ggggatccag gcagcctgtt cctggaaggt caagaccagc agcatgatcc 1800
tgacacggac tccgacagtg acctgtcctt agaagacgac cagagtggct cctatgcctc 1860
tacccactca tcagacagtg aggaggaaga agaggaggag gaagaggagg ccgccttccc 1920
tggagagcag ggctgggata gcctgctggg gcctggagca gagagactgc ccctgcacag 1980
tactcccaag gatgggggcc cagggcctgg caaggccccc tggccaggag actttgggac 2040
cacagcaaaa gagagtagtg gcaacggggc ccctgaggag cggctgcggg agaatggaga 2100
tgccctgtct cgagaggggt ccctaggccc ccttccaggc tcttctgccc agcctcacaa 2160
aggcatcctt aagaagaagt gtctgcccac catcagcgag aagagcagcc tcctgcggct 2220
ccccctggag caatgcacag ggtcttcccg gggctcctcc gctagtgagg gcagccgggg 2280
cgkccccct ccccgcccac cgccccggca gagcctccag gagcagctga acgggtcat 2340
gcccatcgcc atgagcatca aggcaggcac ggtggatgag gactcgtcag gctccgaatt 2400
tctcttcttt aacttcctgc attaaccctg ggccgtggtt cctamcccg aggctccctt 2460
cccttcccca gccgcactca tgccctgctc ctgtcttgtg ctttatcctg ccccgctccc 2520
catcgcctgc cgcagcagcg acgaaacgtc catctgagga gcctgggcct tgccgggagg 2580
ggtactcacc ccacctaagg ccatctagtg ccaactcccc ccccaccatt cccctcactg 2640
cactttggac ccctgggggcc aacatctcca agacaaagtt tttcagaaaa gaggaaaaaa 2700
agaatttaaa aaaggatctc cactcttcat gacttcaggg attcattttt tttatacgct 2760
ggaaattgac tccccttttcc cttcccaaag aggataggac ctcccaggat gcttcccagc 2820
ctctcctcag tttcccatct gctgtgcctc tgggaggaga gggactcctg gggggcctgc 2880
ccctcatacg ccatcaccaa aaggaaagga caaagccaca cgcagccagg gcttcacacc 2940
cttcaggctg cacccgggca ggcctcagaa cggtgagggg ccagggcaaa gggtgtgcct 3000
cgtcctgccc gcactgcctc tcccaggaac tggaaaagcc ctgtccggtg agggggcaga 3060
aggactcagc gcccctggac ccccaaatgc tgcatgaaca cattttcagg ggagcctgtg 3120
cccccaggcg ggggtcgggc agcccagcc cctctccttt tcctggactc tggccgtgcg 3180
cggcagccca ggtgtttgct cagttgctga cccaaaagtg cttcattttt cgtgcccgcc 3240
ccgcgccccg ggcaggccag tcatgtgtta agttgcgctt ctttgctgtg atgtgggtgg 3300
gggaggaaga gtaaacacag tgctggctcg gctgccctga ggttgctcaa tcaagcacag 3360
gtttcaagtc tgggttctgg tgtccactca cccacccccac ccccaaaat cagacaaatg 3420
ctactttgtc taacctgctg tggcctctga gacatgttct attttaacc ccttcttgga 3480
attggctctc ttcttcaaag gaccaggtcc tgttcctctt tctccccgac tccaccccag 3540
ctccctgtga agagagagtt aatatatttg ttttattat ttgctttttg cgttgggatg 3600
ggttcgtgtc cagtcccggg ggtctgatat ggccatcaca ggctgggtgt tcccagcagc 3660
cctggcttgg gggcttgacg cccttcccct tgccccaggc catcatctcc ccacctctcc 3720
tcccctctcc tcagttttgc cgactgcttt tcatctgagt caccatttac tccaagcatg 3780
tattccagac ttgtcactga ctttccttct ggagcaggtg gctagaaaaa gaggctgtgg 3840
gcaggaaaga aaggctcctg tttctcattt gkgaggccag ctctggcttt tctccgtgg 3900
attctccccc tgtcttctcc cctcagcaat tcctgcaaag ggttaaaaat ttaactggtt 3960
tttactactg atgacttgat ttaaaaaaaa tacaaagatg ctggatgcta acttgatact 4020
aaccatcaga ttgtacagtt tggttgttgc tgtaaatatg gtagcgtttt gttgttgttg 4080
tttttcatg ccccatacta ctgaataaac tagttctgtg cgggtamaaa aaaaaaaaa 4140
aaaaaaaaa aa                                                     4152
```

<210> 360
<211> 1156
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<400> 360
ggtccgagac acagtcgtgg gcaccatggg cctgaaggcc acgggccgnc tctgcaccgt 60
ggctaaggca aggggctgc gagcctgcag gggagagctg agggacacca tcctagactg 120
ggaggactcc ctgcccgacc gggacctggc actcgccgat gagccagcag gaacgccgac 180
ctgtccatca cgctgggtac atcgctgcag atccggccca gcgggaacct gccgmtggct 240
accaagcgcc ggrkaggccg cctggtcatm gtcaacctgc agcccaccaa gcacgaccgc 300
catgctgacc tccgcatcca tggctacgtt gacgaggtca tgacccggct catgaagcac 360
ctggggctgg agatccccgc ctgggacggc ccccgtgtgc tggagagggc gctgccaccc 420
ctgcccgccc gcccacccc aagctggagc ccaaggagga atctcccacc cggatcaacg 480
gctctatccc cgscggmccc aagcaggagm cctgcgccca gcacaacggc tyararcccg 540
ccagccccaa acgggagcgg cccaccagcc ctgcccccca cagacccccc aaaagggtga 600
aggccaaggc ggtccccagc tgaccagggt gcttggggag ggtgggggctt tttgtagaaa 660
ctgtggattc tttttctctc gtggtctcac tttgttactt gtttctgtcc cyggggagcct 720
cagggctctr aragctgtgc tccaggccag gggttacacc tgccctccgt ggtccctccc 780
tgggctccag gggcctctgg tgcggttccg ggaagaagcc acacccccara ggtgacagct 840
gagcccctgc cacacccccag cctctgactt gctgtgttgt ccagaggtga ggctgggccc 900
tccctggtct ccagcttaaa caggagtgaa ctccctctgt ccccagggcc tcccttctgg 960
gcccccctaca gcccacccta cccctcctcc atgggccctg caggaggggga gacccacctt 1020
gaagtggggg atcagtagag gcttgcactg cctttggggc tggagggaga cgtgggtcca 1080
ccaggcttct ggaaaagtcc tcaatgcaat aaaaacaatt tctttcttgc aaaaaaaaa 1140
aaaaaaaaaa aaaaaa   1156

<210> 361
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

```
<400> 361
tgggaagtga tatttgggag ctaattgagg cctanggtga aaaaggaaat agcttcagat 60
waaaaytaga aagaagcttt ctgagaaact gctttgtgat rtgtgcattc atctcacaga 120
ggtaaatctt tcttttgatt cagcagtttg gaaacctggc taacatggtg aacccggtgt 180
ctactgaaaa tacaaaaaat tagccaggtg tggtggcaca atgctgtaat cccagctact 240
caggaggctg aggcaggaga atcgcttgaa cccgggaggt gggaggttac agtgagccaa 300
gtttgtgcca ctgcattcca gcctgggctt atagagtggg acttccgtct tcaaaaaaaa 360
aaaaaaaaaa nctngn 376
```

```
<210> 362
<211> 519
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c
```

```
<400> 362
ccctaagcca ttttgaaga gaggacctgc cctagctta tgacttaaga ccatgactat 60
gcatcttaag ttgcccctct gactgggcag ctttctcctg aacacagtga ggaatgctaa 120
gttacatggt ccagtaamtg agtggatacc ctgagcccccc gcatcccact ggctgctatg 180
cagggataag tccatgcacc tgtggatggc agtggttgag ctggttctct ataaaagtat 240
ccagtgccca gacctttgtt cacacatgca tgtaaattta ctgggaaaac tctagagacc 300
aatgttcttt cttccacaga aatctggcct agcagtctat tcttaaattg ctctttgtgt 360
gtaagacaca tctgtttgat accccactct gccctgactt ttaggcaaat ccgttaggac 420
aggaaccact attttctttc cttccctttg aatcatcttt taaagcagca gaggcaatgt 480
tkggcagagg tccacattgg gaaagttagt gcatcanga 519
```

```
<210> 363
<211> 1385
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1320)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1350)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1360)
<223> n equals a,t,g, or c

<400> 363
acggtcggat tcccggtcga cccacgcgtc aggacggctc cggaccgcgc agttagcgcc 60
gcctggcctg ggccggaccc ggtcagggtt ctcaagctgt cgtccctatg gggctgtgtt 120
ttccttgtcc cggggagtcc gcgcctccca cgccggacct ggaagagaaa agagcaaagc 180
ttgcagaggc tgcagagaga agacaaaaag aggctgcatc tcggggaatt ttagatgttc 240
aatctgtgca agaaaagaga aagaaaaagg aaaaaataga aaaacaaatt gctacatccg 300
ggcccccacc agaaggtgga cttaggtgga cagtttcata aagcataaca tgagtagaag 360
aatctactgc caataactgt ttattatctg caatcaagtg ggcttcatca atttaatttc 420
ttctctttga gtaaatgaag attcagactt tgtaatatta ttgcccttaa gtgcaatgct 480
aaaaaaacgt tgattttcaa gcttagagaa tggctagact tttcattaaa tactgatttt 540
cctacatttg ctcttctgca gttagtgggt gatttgctat ttttcttagt agttaaaaaa 600
tggaactaaa tagtgaatat acatacactg catgtaaaca ttctgcatat acctctaaga 660
ttaaaattcg cagttgtctt ttcatccttt ataaatgat ctaactactt atatttgtgc 720
tgcatcgcgt tacatctgtt tttatttcac tatgaagatg tttgattaaa cttatggact 780
tagtgccttt aaactgatca tcagggagaa tcttgaaaaa atcatttgaa gggctgatgt 840
gaaggagcac tgtaaatttt tataacttag taatgagtat tcttaggcag atgtaaaatt 900
ttttccaatt tattttatt tatgtagctt ataaaattaa cataccctgt tttactttat 960
gataaaggat tttttgtttg ctgaatttaa aattatatat tagtgatacc atcagagggc 1020
agtgatgttc tattgtatat taaattcagc tctgtaagga tctttgtagt aattgaatga 1080
gttaaactaa taatctggat gggttataat gagtagtaat atatttgtcc atatttcata 1140
agtagtgkta atcttgkgka cttattagag gaacgatcat aaggatttat acaggatgtg 1200
gaaactgcgg aaggcaagtt atkgaatgta tgraaaaaaa catgtagggt actgkacttt 1260
accaaaaggg tctacttcca ggatattaaa aatattaggg gtaattctat taccatgccn 1320
aggtccttaa cccttaaccn ttttgttccn tagggaaccn ggattttatg gcctttttg 1380
gtttc                                                                    1385
```

```
<210> 364
<211> 977
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (962)
<223> n equals a,t,g, or c
```

<400> 364

aacaanaccτ ccataacctt ccccnaaatg aaaacccccc caaagtataa gccgccatat 60
tttccggata tttttggtgg aattccccaa aagggaaatc cacagggctg ttccgaaata 120
ttgggggaac actgtttttc ctgcatcatc ctgcatttgc tccccaagca atgtagaggt 180
gtttaaaggg ccctctgctg gctgagtggc aatactacaa caaacttcaa ggcaagtttg 240
gctgaaaaca gttgacaaca aagggccccc atacacttat ccctcaaatt ttaagtgata 300
tgaaatactt gtcatgtctt tggccaaatc agaagatatt catcctgctt caagtcagct 360
tcagaaatgt tttaaaaggg actttagctc tggaactcaa aatcaatta ttaagagcca 420
tattctttaa aaaaaaaaaa gctggataat attmtctgta atatttcagt cctttacaag 480
ccaaatacat gtgtcaatgt ttctagtatt tcaaagaagc aattatgtaa agttgttcaa 540
tgtgacataa tagtattata attggttaag tagcttaatg attaggcaaa ctagatgaaa 600
agattagggg cttccacact gcatagatta cacgcacata gccacgcata cacacacaga 660
cacacagatg tggggtacac tgaacttcaa agcccaaatg aatagaaaca cattttctgg 720
ctagcagaaa aaaacaaaac aaaactgttg tttctctttc ttgctttgag agtgtacagt 780
aaaagggatt ttttcgaatt atttttatat tattttagct ttaattgtgc tgtcgttcat 840
gaaacagagc tgctctgctt ttctgtcaga gatggcaagg gcttttttcag catctcgttt 900
atgtgtggaa tttaaaaaga ataaagtttt attccattct gtgtgaatgg tttgagcagt 960
gngaaaagga caaaaaa   977

<210> 365
<211> 964
<212> DNA
<213> Homo sapiens

<400> 365

gttcggcaca gaaagggaga tgggtagcat cattttgatt aacatttggg gcctgatagg 60
ggaaatggtg aagcaatgga aaagaacaga caactaatga tttgcttcta tgtccagaat 120
attttacctt taaaaaaatg tcattggcac cataaataag gactgtgaga gactgtttaa 180
aagctgtgaa agtctgaaac ctataagcca aggtgttccc tgcctaaact tattgctgtt 240
cccacaaagg actaagcctg ttcataagtt accaaagttg ccattttgga gatggaaatt 300
gacgaggagg gaaggtcttt tattggagag tatacagtac aagcagatca ttctgcctta 360
gaggtgctaa ttcccgaaat tagaagaccc tttcttttcc agtaacgaag ttataaatat 420
cagcttgttc atccaagcca ctggctgagg tgttaggaag aggaagaggg tggtagagga 480
ggtaagacag tagggaaaga caagggccca tgctcttagt ggggaaaact cttggagccg 540
tttactttga gctttgaaca ctgaaaccat tgttggcagg gttcagtcac tgacagcaca 600
agtttcactg aattgatcca agagtttagt gatttcaaaa gccttggtct caggagaaga 660
ttaaactttc atattgggca gtggttcact ttaaaacaca cacatacaca cacaaacaa 720
tttttttaaga aatcctaata agtaacatac ccaaaatgct ctgtcttgag tcatgagaac 780
catcagttct tgatattgtc tagacttgca tctagagcta cgttgtaaaa ttcttttagg 840
catgtgttag atttctgtgt aaactttgtt taaatgtaaa cttcatacta cattgtcagt 900
ttttgtctta ataaaactat agatttataa aaaaaaaaa aaaaccgcg gggggggggc 960
ccgg   964

<210> 366
<211> 1297
<212> DNA
<213> Homo sapiens

<400> 366

gtggcttacg cctgtaatcc cagcactttg ggaggccgag gcaggcggat cacgaggtca 60
ggagttcgag accagcctga ccaacatggc gaaaccccgt ctctactaaa aatacaaaaa 120

```
ttagctgggc gttatggcgg gcgcctgtaa tcccagctac ttgggaggct gaggcagaag 180
aatcgcttaa acccaggagg cggaggttgc agtgagctga gatcatgcca ttgcactcca 240
gtctgggcga caggagcaag actctgtctc aaaaaaaaaa atcattcttt ttagtcttag 300
cacctactta aggatccact tttagggctc acccacattt gtttctagat ttacccctgc 360
gctagagtaa gcactttatc tccagaactg agagcaaagt taacaaatct caccccttct 420
ctcctgcaaa ttagtggaca gactccctgg aacatgtttg gggcttccac ctaggccac 480
ctagtggtat ctctgggtct ttacttggtc agatgtttat tctacattgt tccccaggaa 540
cagagtatga gctcattgat gcagaccgat tctaattgcc aggccctaat ttgcagacta 600
actctcataa taaacagagg cccatagttg tttatgaact gcttatccct taaaggagca 660
caagaacccc tccctgccct ccttgggcac cctgcctcca ggagatggag gcacgtgata 720
agacaaaaga ctgcaccaac tcaccctgac acagttacat agtcactgag agtggggaag 780
atgggacagc ccacatgctg cataagatgg gccttatgca gcaggcccag gtcgtcatta 840
aggagtgacc cctttcctgt aacctgcact ttgggatggt agaagtttct ttacctgctg 900
acaggtttgg tggcactgct ggttacccct gggccctgaa tggagctaaa atcacatttg 960
gtaccagcag cacctatccc aagtgtgatc cttcatccca acactccctc ttggagctgt 1020
tccctgggta gagctagcat gccagcagct tctgcaggct ccaaacccag gccagaagcc 1080
agacccaggc ctgctgcctg catctgcatt ccctccttcc agtgttcctt agaacagaca 1140
tttaggtatc tcaggtcctt tctaagtgtc cctttcctat gtatgcattt ccttttttg 1200
tctttactat gcactttagc ttataaagcc aattaaaaac gatgattgag aaaaaaaaaa 1260
aaaaagggc ggcgctctta gaggatccaa agcttac                         1297
```

<210> 367
<211> 785
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (704)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (746)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (753)
<223> n equals a,t,g, or c

<400> 367
```
gcggctggtt tcttggtgag cccgggtccc tcaaggccgg aaagaaagtc gggcttctct 60
agccccctgga ggactcgact cactggtgcg cgatttaggt ccggagaggc gttgtgaggt 120
gagctttttc agaagcgcga tccaggaca cgtcgggaag caagcatccc cagagctgct 180
tggaaagagg accaaagacg tctaaaaagt catttggaaa tatctctaaa tatttgttac 240
catgtataag ctgctaaaga gaaattgggc ccaacaaaac taattgaata attgaggcag 300
atttgtgtgt atcatcaaat tctatccaga agttgaagaa tctgaattta aagattgtgt 360
gcatttaata agaggatgac ctttcagttt aatttcacta tagaagacca tctggaaaat 420
gaattaacac ccattagaga tggagctttg accctggatt cctcaaaaga gctgtcagtc 480
tcagaaagtc aaaaaggaga agagagggac agaaaatgtt ctgcagaaca atttgacttg 540
```

```
cctcaggatc acttgtggga acataagtca atggaaaatg cagctccctc tcaagacaca 600
gacagtccac tcagtgcagc cagcagttca aggaacttgg gagccacatg ggaaaacagc 660
cctccttgag agctggccaa aggrgcmtgc tatgccttaa aggntttaaa gaagrtgttt 720
aggaaaatwa aagtycttag gaaacnttta ccngggtttt ccmgyctgtt taagttwttc 780
rgtta                                                           785
```

```
<210> 368
<211> 920
<212> DNA
<213> Homo sapiens
```

```
<400> 368
ggcagagctc atgccatcac agtatctgtt gcaaatraaa aggcactagc taagtgtgag 60
aagtacatgc tgacccacca ggaactagcc tccgatgggg agattgaaac taaactaatt 120
aagggtgata tttataaaac aaggggtggt ggacaatctg ttcagtttac tgatattgag 180
actttaaagc aagaatcacc aaatggtgtt ctgtggctgt ggagatgaga gcaggatccc 240
agctgggacc tggatatcag catcacgcac aacccaagcg caaaaagcca tgaactgaca 300
gtcccagtac tgaaagaaca ttttcatttg tgtggatgat ttctcgaaag ccatgccaga 360
agcagtcttc caggtcatct tgtagaactc cagctttgtt gaaaatacg gacctcagct 420
acatcataca ctgacccaga gcaaagcttt ccctatggtt ccaaagacaa ctagtattca 480
acaaaccttg tatagtgtat gttttgccat atttaatatt aatagcagag gaagactcct 540
tttttcatca ctgtatgaat tttttataat gttttttaa aatatatttc atgtatactt 600
ataaactaat tcacacaagt gtttgtctta gatgattaag gaagactata tctagatcat 660
gtctgatttt ttattgtgac ttctccagcc ctggtctgaa tttcttaagg ttttataaac 720
aaatgctgct atttattagc tgcaagaatg cactttagaa ctatttgaca attcagactt 780
tcaaaataaa gatgtaaatg actggccaat aataaccatt ttaggaaggt gttttgaatt 840
ctgtatgtat atattcactt tctgacattt agatatgcca aaagaattaa aatcaaaagc 900
actaagaaat amaaaaaaaa                                           920
```

```
<210> 369
<211> 834
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (533)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (831)
<223> n equals a,t,g, or c
```

```
<400> 369
cctagaacgc tttgcgtccc gacgcccgca ggtcctcgcg gtgcgcaccg tttgcgactt 60
ggtacttgga aaaatggaca aggattgtga aatgaaacgc accacactgg acagcccttt 120
ggggaagctg gagctgtctg gttgtgagca gggtctgcac gaaataaagc tcctgggcaa 180
ggggacgtct gcagctgatg ccgtggaggt cccagccccc gctgcggttc tcggaggtcc 240
ggagcccctg atgcagtgca cagcctggct gaatgcctat ttccaccagc ccgaggctat 300
cgaagagttc cccgtgccgg ctcttcacca tcccgttttc cagcaagagt cgttcaccag 360
```

```
acaggtgtta tggaagctgc tgaaggttgt gaaattcgga gaagtgattt cttaccagca 420
attagcagcc ctggcaggca accccaaagc cgcgcgagca gtgggaggag caatgagagg 480
caatcctgtc cccatcctca tcccgtgcca cagagtggtc tgcagcagcg ganccgtggg 540
caactactcc ggaggactgg ccgtgaagga atggcttctg cccatgaag gccaccggtt 600
ggggaagcca ggcttgggag ggagctcagg tctggcaggg gcctggctca agggagcggg 660
agctacctcg ggctccccsc ctgctggccg aaactgagta tgtgcagtag gatggatgtt 720
tgagcgacac acacgtgtaa cactgcatcg gatgcggggc gtggaggcac cgctgtatta 780
aaggaagtgg cagtgtcctg ggaaaaaaaa aaaaaaaaaa aagaaaaaaa naaa      834
```

<210> 370
<211> 947
<212> DNA
<213> Homo sapiens

<400> 370
```
tggcaataga atagctggat acactaatct ctacaaggtg tcaggcagga gattcaccgt 60
tccccagtcc caggggcagg agagaaatct gtaaagggac agatgcacca tctttatttc 120
aaaagaaaaa gctccctcag attgtgttac taggagtctc ttttgtgaca tttactgasc 180
tttctcccca atcttacctt cctattggct acttttttaaa taaaaataaa cattttaggc 240
taatatgaca aaaatgagat aaaatcttaa aaacattgta ctagtgtaca gttactaaaa 300
tgtgcttact acaaaacagt aaaatatttc actctgtaaa tcatcactaa gtagttattc 360
tgtcctgttg attatgagcc tccaaaaatg tttaatgctt gamggatggt ttgggaggca 420
gggaatcctt wtcttaaaac ractktaatg aggcatatgt tacatatcat aaaacaccca 480
tktcaagtgt acatytcagt gattttagta acttccctca gtggtgtagc tgtarctatt 540
actcagttyt agawcatktt tatcccccca ataagatctt catgctcwkt tacagttaac 600
ctgtgcttac cccagcaaca ctaatctact tctctataaa ttgcctttct ggcagtcaat 660
catggaatca tcatagtggc cgtggtctgg cttgtactag aatgtttgag gttgtcagca 720
gtacgtctgg actgtcgata tgcggggaac ggtgtgtggc cattgctgcg ggcttacatg 780
gtcatctgtc tacgactcgc gtgctatgga cgtggtcaaa ccatcgggag cgtctccgcg 840
tcgagttttg cttgtgtagg ggcactggtg cagtttggtg ggagaggccg gtccccgggg 900
aaactctgga gactttgcga gagccgctct agcgccccct ggtggct          947
```

<210> 371
<211> 2340
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2301)
<223> n equals a,t,g, or c

<400> 371
```
ggcacagcag gaactccagg ttctgctggc cgtggcatcc tctctccarg tctgctccct 60
taccggagct asgataasgt agcatgartg acacctgaga ttagaggctg gggctcactg 120
caggctgtgg agaggtcatg ctggtccaca ggaacacttg gcagtgctct cgtagacccc 180
```

```
tcggtgatgt ggaatggaca ggtgcctcgc aagagagcaa gcacgttcat aacaaaacag 240
caacacaaag acatgttaag catgtttatt tatttgcctg tttttgtttt tttacttgag 300
ctgtggtcac agctgnccag gtacctaagc aagtcagttg ggtacagcag gacacgccac 360
cattccaggg tagctggtac cgccagaaac aggagtgggt cttgtcctgt tgcaggcaca 420
ctgcagtggt tttcctgcag ctctccaaca aacgcctgag tcacaggcca gagctgcctt 480
ggtatgttgt taagtccaaa acttcttctc tgggctacct atcttccttc atgaagcagg 540
tgctcaggac ccggaagaat catctacctc ccagctttgt gagacagaac caagtaaaag 600
gaaacatgct agaaaacgtg cctagagaag acacttcaac ctttgcctta tccaacccct 660
cttcagagaa aggtgtccca tggccccaaa aagaactgcc aagttttggt gaggagtaac 720
accctggcat gacattcctt ctctttcctg gccctcaacc acttccttcc tttggctctt 780
aagacctagc aggttctgtg aactctcagg ccttggccag cactagttag gggaggtcag 840
gtggtcaatg tcctggtgat tttatgagac tgccccactg agaaaactta cttacttcag 900
gcatccagtg cccccaccca gggttcaggc cctgtctaag gtgttgctta aagacaaaaa 960
ggcaacatgt gcctcactgg tggtgtgcca ctgttctcat gctgcctcct aagtgactcc 1020
gattttcagc cctggtagaa taaggaagac agctgatgcc tccttagccc cttagcacat 1080
gttcctaagg tgtgttgtca agccaacctg aattctgcct ccctgttata gtccctgtct 1140
ccccacagag gacctgtggg tgctcccagc agagttgaga ctggctccgt tgagttaatg 1200
actagaatat agtgctttca ctacttgatt gttaacctgt tttcttctga tgccatcagt 1260
accagcagtc agactattcc actggttaag tgtttactac cattaaagcg aggcatgaag 1320
caaagagctg agtgagtcct ctgctctcca gaggaccaag aaatacctgt gtgacacaga 1380
cccacttcag tgtgtacagc aaattctata gtgcttctga gcccagcagg gctttacctg 1440
cccctggaga gttttagccg tcttgtgttt cttgtttact tcacaaccaa atttgtcccc 1500
tcttctctct gttaagggag agaagtcact ttagctggat aatacctatg taacaaactg 1560
agcagctgtt atttgggcaa aatcaaagga agaaagagac tatggtcttc tatttattgt 1620
gggaaggaaa acagggtggg gcgggtgagt gaaaaggtgg aaatccctgg taccttgcct 1680
ggtggttaca cagtttaacc ataggccaat tttaggggcc tctgaagtat ctttctacaa 1740
acgcagacaa gctccactac ccctaacctg ccaggatgct caagtccact gtcacaatcc 1800
ctttcagaaa acattagtgg ccgctgcccc agctacagag acggccgaaa tgctttcact 1860
ccttagcttt gccaactcca tcctccaaaa cttcccagaa tacctccctt tccagttcta 1920
ccaaatctgt acttgggagc agcctgctgg atccagaaca tgacaacaga gagctgcgtc 1980
cacagggaac aaagccctga cctctctctc cacattaccc ttacaaaaac aggccctccc 2040
catgagagag ctacacggca ggggcagaca ctgtgagtat aagctacttt cctccctgga 2100
gtgctctatg tgggcagaac atgctctcct tgcctctcct ggaaggtgtc ttctctatgg 2160
cctggctaga gctgcaaaaa agggacacac cccacttcgg taaaagaaaa tagggaaagg 2220
ccataaacaa agacagactt gtagtttatt ttgtattttt tttaaataaa tacactttac 2280
attaaaaaaa aaaaaaaaa ncgggagggg tggcctaaac caaagttga agctaaacct 2340
```

```
<210> 372
<211> 1575
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1492)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1548)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1556)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1559)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1565)
<223> n equals a,t,g, or c

<400> 372
atggatttgt ggacatccta gagagtgact taaaggacct cgtcatgtac agcaagtncc 60
agcggctctt ccgctctccg tccatgccct gcagcgtgat ccggcccatc ctcaagaggc 120
tggagcggcc ccaggacagg gacacgcccg tgcagaataa gcggaggcgg aggtgacccc 180
tcctgaggag cagcaggagg ctgaggaacc taaagcccgc gtcctccgct caaaatcact 240
gtgtcacgat gagatcgaga acctcctgga cagtgaccac cgagagctga ttggagatta 300
ctctaaggcc ttcctcctac agacagtaga cggaaagcac caagacctca agtacatctc 360
accagaaacg atggtggccc tattgacggg caagttcagc aacatcgtgg ataagtttgt 420
gattgtagac tgcagatacc cctatgaata tgaaggcggg cacatcaaga ctgcggtgaa 480
cttgcccctg gaacgcgacg ccgagagctt cctactgaag agccccatyg cgccctgtag 540
cctggacaag agagtcatcc tcattttcca ctgtgaattc tcatctgagc gtgggccccg 600
catgtgccgt ttcatcaggg aacgagaccg tgctgtcaac gactacccca gcctctacta 660
ccctgagatg tatatcctga aaggcggcta caaggagttc ttccctcagc acccgaactt 720
ctgtgaaccc caggactacc ggcccatgaa ccacgaggcc ttcaaggatg agctaaagac 780
cttccgcctc aagactcgca gctgggctgg ggagcggagc cggcgggagc tctgtagccg 840
gctgcaggac cagtgagggg cctgcgccag tcctgctacc tcccttgcct ttcgaggcct 900
gaagccagct gccctatggg cctgccgggc tgagggcctg ctggaggcct caggtgctgt 960
ccatgggaaa gatggtgtgg gtgtcctgcc tgtctgcccc agcccagatt cccctgtgtc 1020
atccatcat tttccatatc ctggtgcccc ccacccctgg aagagcccag tctgttgagt 1080
tagttaagtt gggttaatac cagcttaaag gcagtatttt gtgtcctcca ggagcttctt 1140
gtttccttgt tagggttaac ccttcatctt cctgtgtcct gaaacgctcc tttgtgtgtg 1200
tgtcagctga ggctggggga gagccgtggt ccctgaggat gggtcagagc taaactcctt 1260
cctggcctga gagtcagctc tctgccctgt gtacttcccg ggccagggct gcccctaatc 1320
tctgtaggaa ccgtggtatg tctgccatgt tgcccctttc tcttttcccc tttcctgtcc 1380
caccatacga gcacctccag cctgaacaga agctcttact ctttcctatt tcagtgttac 1440
ctgtgtgctt ggtctgtttg amtttamggc ccatcttcag ggacamtttc cntwagrmtk 1500
gttttaaggg ttccctgkt caaatatcag ttacccattc ggtcccangt ttttgntgnc 1560
ccaanaaggg gaagg                                                   1575

<210> 373
```

```
<211> 1878
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1717)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1764)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1771)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1773)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1810)
<223> n equals a,t,g, or c

<400> 373
ccgccgcggt gattccatca ctcggctttc ttcccggcct gcctcgcgcc cgtagccggg 60
ctgggccaga acagcccaag atggccgact tcgatgatcg tgtgtcggat gaggagaagg 120
tacgcatagc tgctaaattc atcactcatg cacccccagg ggaatttaat gaagtattca 180
atgacgttcg gctactactt aataatgaca atctcctcag ggaaggggca gcacatgcat 240
ttgcccagta taacatggat cagttcacgc ctgtgaagat agaaggatat gaagatcagg 300
tcttaattac agagcacggt gacctgggta atagcagatt tttagatcca agaaacaaaa 360
tttcctttaa atttgaccac ttacggaaag aagcaagtga cccccagcca gaagaagcag 420
atggaggtct gaagtcttgg agagaatcct gtgacagtgc tttaagagcc tatgtgaaag 480
accattattc caacggcttc tgtactgttt atgctaaaac tatcgatggg caacagacta 540
ttattgcatg tattgaaagc caccagtttc agcctaaaaa cttctggaat ggtcgttgga 600
gatcagagtg gaagttcacc atcacaccac ctacagccca ggtggttggc gtgcttaaga 660
ttcaggttca ctattatgaa gatggcaatg ttcagttggt tagtcataaa gatgtacagg 720
attcactaac tgtttcgaat gaagcccaaa ctgccaagga gtttattaaa atcatagaga 780
atgcagaaaa tgagtatcag acagcaatta gtgaaaacta tcaaacaatg tcagatacca 840
cattcaaggc cttgcgccgg cagcttccag ttacccgcac caaaatcgac tggaacaaga 900
tactcagcta caagattggc aaagaaatgc agaatgctta aaggctgaat gtaggattct 960
tcagtatgtg gaaagacaag gattcaacgt gtggtcatat gataaataag tgatttataa 1020
acaagagtga tattttgcta gggctttcaa agttaaccgg ttttctagcc tcatggaata 1080
ctgttgaacc tatagcgttg tcttgattct tttgtgttct ctgccttgta attttctgtt 1140
actgctatat ctacgtgtaa atctttttt cttttttt ttttttttt ggttaattct 1200
gccacattta atgttggtga gagagtgatc tatcctaatg acattttact gtttaaaaaa 1260
```

```
gtttcctagc catgaagccc tgctactgat ttagacaagg tattatggtc attactttgt 1320
acccctatcc ttccaagcac ttctggtact tcagtcgttt ttactgatcc accaacacct 1380
aaagaggcta tgctacagtc tctagctaaa tggaagacac attcatcctt ctccctctga 1440
ctgctttgat catcatttat tgcatctcat aactaatttt ctaaagtttg gattgggact 1500
tttcaggtcc ttttggagg gcaaaggaag tgccagcttc tctgggaac ttgtttttaa 1560
atccaaagac ttgaaccaca ttccctgcac atgaacatgt ttgcttttat cccttctctc 1620
attgtctcct tcccatctta gtaccattgt agttattaaa accatctggc aattttttt 1680
targaaaagg caattttta accccyattt tattttnttt ttaaaaccat tttcaaggaa 1740
actggctgga ccgtactggt gggnattggt nangaagggt aattaaaaaa ctttggaaaa 1800
aaaatgcagn aattggtttt ggaaaaaagg gggaaattaa ttagggtatt ctttgggct 1860
ttttaaataa ctttttat                                                1878
```

<210> 374
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (747)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (786)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (797)
<223> n equals a,t,g, or c

<400> 374
```
gtgcattcaa tgctctggtt accttctgca tcagagacct cattggctgt ctccagaagc 60
tgctgtttgg aaaggtggca aaggatagca gcaggatgct gcagccgtcc agcagcccgc 120
tctgggggaa gcttcgtgtg gacatcaagg cttacctggg ctcggccata cagctggtgt 180
cctgtctgtc ggagacgacg gtgttggcgg ccgtgctgcg gcacatcagc gtgctggtgc 240
cctgcttcct gaccttcccc aagcagtgcc gcatgctgct caagagaatg gtggtcgtat 300
ggagcactgg ggaggagtct ctgcgggtgc tggctttcct ggtcctcagc agagtctgcc 360
ggcacaagaa ggacactttc cttggccccg tcctcaagca aatgtacatc acgtatgtga 420
ggaactgcaa gttcacctcg cctggtgccc tccccttcat cagtttcatg cagtggacct 480
tgacggagct gctggccctg agccgggtg tggcctacca gcacgccttc tctacatcc 540
gccagctcgc catacacctg cgcaacgcca tgaccacccg caagaaggaa acataccagt 600
ctgtgtacaa ctggcagtat gtgcactgcc tcttcctgtg gtgccgggtc ctgagcactg 660
cgggccccag cgaagcctcc agcccttggt ctaacccct tgncccaagt catcattggc 720
tgtatcaagc tcatccccaw tgcccgnttc taacccgctg cgaatgcamt gcatccgtgg 780
```

```
cctgangsyg cttctynggg gaagcttcgg ggggsctttc atcccggtgg ctggcctttc 840
aatcct                                                          846
```

<210> 375
<211> 657
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (634)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (646)
<223> n equals a,t,g, or c

<400> 375
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gcccacgcgt ccgnccacgc tgagatcggc ggccggtgag ggggaagcaa gtctggtctc 60
tgtgattgaa gaagtcggct ctgggctcca gtgcgggaat cacacacata cctcagaatg 120
ccgggtctaa gttgtagatt ttatcaacac aaatttcctg aggtggaaga tgtagtgatg 180
gtgaatgtca gatccattgc tgaaatgggg gcttatgtca gcttgctgga atacaacaac 240
attgaaggca tgattcttct tagtgaatta tccagaaggc gtatccgttc tatcaacaaa 300
ctcatccgaa ttggcaggaa tgagtgtgtg gttgtcatta gggtggacaa agaaaaagga 360
tatattgatt tgtcaaaaag aagagtttct ccagaggaag caatcaaatg tgaagacaaa 420
ttcacaaaat ccaaaactgt ttatagcatt cttcgtcatg ttgctgaggt gttagaatac 480
accaaggatg agcagctgga aagcctattc cagaggactg cctgggtctt tgatgacaag 540
tmcaagarac ctggatatgg tgcctatgat gcatttaagc atgcagctya grmcccatct 600
aattttggaa aggttaanat tggaatgaaa attnaacggg aaaggnctca ttaataa  657
```

<210> 376
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (647)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (662)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (680)
<223> n equals a,t,g, or c


<400> 376
acaatctgaa tgctacttac attgtttaac tcgcgtccnt ttgaagagac caccanacag 60
gctttgggtg agcaataaat ctttttaatc acctgggtgc agncaggctg agtccacaaa 120
gagagtcagc taagggagat aggggtctat gaaggggtgg ggtcgtttta taagatttag 180
gtaggtaaag gaaaattaca gtcaaagggg ggttgttctt tggtgggcag gagtgggggt 240
cacaaggtgc tcagtggggg agattttttg agccaagata agccaggaaa aggamtttca 300
caagktaatg tcatcagtta aggcaaggac tggccatttw crcttctttt gtggtggaat 360
gtcatcagtt aaggyrgggc agggcatwtt cacttctttt stgattcttc agttacttca 420
ggccatctgg gcgtrtacgt gcawgtcata ggggatgcga tggcttggct tgggctcaga 480
ggcctgacat tcccaaagag aatacgaagc taagtgaggg aagagatttt tttatgtttc 540
attcctagtg ctgtgtgggc acttagcaaa taattttaga acaaatgaat acactttgcc 600
agatttaata gagaagtttt tacttactga agttggaaga tttgtangtg ttnccactcg 660
cnccatggac agtaatgtan ggatttaaag gcagg                            695


<210> 377
<211> 3610
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
```

<222> (29)
<223> n equals a,t,g, or c

<400> 377

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ggcacgagag cgggtctggc tggcggcanc ggcgggaggg agccgagaga cccgagtgca 60
cgtgtggaga agcggcggca caagcgcggc ggcgggagac actcccgccc ccaccagact 120
caagccctca ctcgactctc gcggccttcg ttgctcgcac agctccctgc ccaggctagg 180
aggccggctt gcggggttga gtggcccgag ctaagggtgc ggagaccyaa gggcggcgac 240
tacgacggcg ttgatatcgg tggtaacgac ggcctcagca ggcggggaag atgaaagtag 300
ccggatcgag ctgggagatg tgacaccaca caatattaaa cagttgaaaa gattgaatca 360
ggtcatcttt ccagtcagct acaatgacaa gttctacaag gatgtgctgg aggttggcga 420
gctagcaaaa cttgcctatt tcaatgatat tgctgtaggt gcagtatgct gtagggtgga 480
tcattcacag aatcagaaga gactttacat catgacacta ggatgtctgg caccttaccg 540
aaggctagga ataggaacta aaatgttaaa tcatgtctta aacatctgtg aaaaagatgg 600
tactttgac  aacatttatc tgcatgtcca gatcagcaat gagtcggcaa ttgacttcta 660
caggaagttt ggctttgaga ttattgagac aaagaagaac tactataaga ggatagagcc 720
cgcagatgct catgtgctgc agaaaaacct caaagttcct tctggtcaga atgcagatgt 780
gcaaaagaca gacaactgaa caaattacaa atgaactttc ttgcacttgc ttgtcgccaa 840
ataaaagaga ggcccattga ttcctccccc accccaacac ttttctttta aagcttttct 900
ccctccttgt tcttgttttt ctttcttcct ttccttttct ctgagagttt taatactttc 960
aaggacttta aaaaaataat catgtttgaa ttgtttctc ttattttgt gaggtggttt 1020
gaaggaagga caaggtagat ctgttagtt ttgcagttga agttagatgg tcctaaacat 1080
ttaattgtca aataatttca aatttaatgt cctgctttca cattgaaggg cagagcctac 1140
aaaacattgt atatttcaaa agacaaaaag aagcagcagc agtatcttgt tctctaattc 1200
atagacaagt tgagtgtgtt tgtggtactt tgggtttta aacactttgg gatactaatc 1260
cctagacatt gccttcactc caccttagt ccttctgagc actctctcgg gagttggaac 1320
attgttatcc ttgtaagaaa tactaagctt atgttgattt ttaagtaatt atatcttctc 1380
ttcttgctgg tgggtggggc agtttggttt agtgttatac tttggtctaa gtatttgagt 1440
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gattgttact agtggcatta acttttagaa tttgggctgg tgagattaat tttttttaat 1560
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tcccgttcct ttttcttcag taaacccaac aatagtctaa ccttaaaaat tgagttgatg 1680
tccttatagg tcactacccc taaataaacc tgaagcaggt gttttctctt ggacatacta 1740
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attgcttcta ttcttggaaa aatagaagtg taaaatgtta ataatacaaa tgtcactgtg 2040
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gtagtcccat ctccactatt tagaaatgtt ctcagacttt aaaataatgc acaggcttg 2220
agctttctgt catttgactt taaaaggaag tttcattcat atttatcctc ttatgtaaaa 2280
ttgcggtata aagtctcatt tccaaatatg ttaaatgaca aaattatttt ataaaatgtt 2340
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tttatcttca tgaataagct tcagcttgct cttggcaaga gaagagtgct tgagttacag 2640
aaggcataag tagtttgaag aatgcagcag ccttttgta aacttcccag atatcaaaat 2700
agactttgat atataaatgg ttttctgaga tgacactgcc tctatttcta taaccatttc 2760
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```
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aacctgaatt gtaaatgttt gtaaagggtt aattgtccta catcaaactt agttaaataa 3000
ttccatccac ttatggagga ggaggagaat gtggaagagg taaaaagctg ggcacaagtt 3060
catatgccta tgagtcagta aagactgaag taatgtccta tgttgagctg gttattttga 3120
tatatgataa taattatctt tgaagtagaa caattctgtt aactggaaaa tcacaggata 3180
tatccatcat atttttcagg acagatagtt tttactgtgg ggcaaatagg ttaaaattac 3240
actatgttag ttgcatttag gttttaaagc aaagaatctg tagagaaatc tatgcaatat 3300
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tactcatcaa ttgaaaagtc ctccaaaaag agaactattg ggaaaccatg gtgtggtggt 3420
ggaaaagaaa agctccctca gtttttttgga gggaataact taaaaaaata cttaaatggc 3480
taagtttact tggtgcagtt aagaattaaa cttgtcaatt ttaacattgc tgttacatct 3540
gaaataaact tatgtgatgt tctggtaaaa aaaaaaaaaa aaaaccaaga ctagttctct 3600
ctcactctcc                                                       3610
```

<210> 378
<211> 223
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<400> 378
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gtaaaaccgt atactaaatt tgaaatagaa atataagcgt gaactcattt gtttgttctt 60
ttaccgtnag acacattttc tacctcctgc cccagtacag ttagacacat ccaagcacct 120
agaagttggt ctcctaatac attgaaaaac catgaattca taktgatggt ttcccaaagc 180
ccaaaccaac ccaaccaaac atgttatttg gtcctccttg gaa               223
```

<210> 379
<211> 809
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<400> 379
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agccaggcct ccagccgcga ggactggagt cgcgggaggt ggagccccag tccggaagcc 60
ggggatccgc ggccatgacg gtgccggtcc gcggcttctc gctgctccgc ggccgccttg 120
gccgagcgcc ggcgttgggc agaagcacag caccctccgt aagggcaccg ngagagcccg 180
gragtgcgtt ccggggcttt cggagcagcg gtgtgaggac cagcagagag aagagattcc 240
atcttccaga ggttgccact gtctgcctcc ccacttgtcc ccatccacag tcatcttttt 300
tatatatata atgacacatt agttgtctag ttcttcatag ttaatgtggt ttaagtctga 360
catcttttct tttgccatga aatttacacc ttagtgttat tctcactgaa aattgccttt 420
gagtttgata aactcttatc ccagtgatat tgactgtttt aaattaacag atttatcacc 480
atttctgagc tgtgtagggc cttaattgaa aaagtatctt tgattatttt ttcacatttt 540
```

```
ggccacakgc cyataataat ggratattta cagtactttt tagtggagaa ctttttttaag 600
tagaatttca ataattaatg tttgatggag tttggaagtt accgtatttt gaagtatcgt 660
ttaacattct tctctcaatg agtttttcctt taaaatttgc agtgaatttg ttttcctgtt 720
tatgcatgag aatttaggtc ttattaattg ggggaaatta atgttaaagt aataaataag 780
cccttgttgc aaacggacgc gtgggtcga                               809
```

```
<210> 380
<211> 2550
<212> DNA
<213> Homo sapiens
```

```
<400> 380
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tggaagtcca gctgtgaaac ctggagcgtc gccttctccc cagatggctc ctggtttgct 120
tggtctcaag gacactgcat cgtcaaactg atcccctggc cgttggagga gcagttcatc 180
cctaaagggt ttgaagccaa aagccgaagt agcaaaaatg agacgaaagg gcggggcagc 240
ccaaaagaga agacgctgga ctgtggtcag attgtctggg ggctggcctt cagcccgtgg 300
ccttccccac ccagcaggaa gctctgggca cgccaccacc cccaagtgcc cgatgtctct 360
tgcctggttc ttgctacggg actcaacgat gggcagatca agatctggga ggtgcagaca 420
gggctcctgc ttttgaatct ttccggccac caagatgtcg tgagagatct gagcttcaca 480
cccagtggca gtttgatttt ggtctccgcg tcacgggata agactcttcg catctgggac 540
ctgaataaac acggtaaaca gattcaagtg ttatcgggcc acctgcagtg ggtttactgc 600
tgttccatct ccccagactg cagcatgctg tgctctgcag ctggagagaa gtcggtcttt 660
ctatggagca tgaggtccta cacgttaatt cggaagctag agggccatca aagcagtgtt 720
gtctcttgtg acttctcccc cgactctgcc ctgcttgtca cggcttctta cgataccaat 780
gtgattatgt gggaccccta caccggcgaa aggctgaggt cactccacca cacccaggtt 840
gaccccgcca tggatgacag tgacgtccac attagctcac tgagatctgt gtgcttctct 900
ccagaaggct tgtaccttgc cacggtggca gatgacagac tcctcaggat ctgggccctg 960
gaactgaaaa ctcccattgc atttgctcct atgaccaatg ggctttgctg cacatttttt 1020
ccacatggtg gagtcattgc cacagggaca agagatggcc acgtccagtt ctggacagct 1080
cctagggtcc tgtcctcact gaagcactta tgccggaaag cccttcgaag tttcctaaca 1140
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gggagttgct ggaataatgg gccaaacatc tggtcttgca ttgaaatagc atttctttgg 1320
gattgtgaat agaatgtagc aaaaccagat tccagtgtac tagtcatgga tctttctctc 1380
cctggcatgt gaaagtcagt cttagaggaa gagattccac ttgcacggca acagagcctt 1440
acgttaaaty ttcagtccag ttatgaacag caagtgttga actctttctg cttgttttga 1500
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atccttgtgt ttctgatgca gtggtagcat tggttcaagt tctctcctgc tgtggtcaga 1680
gttgcttcga tgttggccaa gtgcttttct tcttgggctc ccttctgacc tgcaggacag 1740
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agaggccgtg ctcctgaccg atccagacac tattactggc ttttttttttt ttttttttaac 1860
aatggtgtgc atgtgcagga aatgacaaat ttgtatgtca gattatacaa ggatgtattc 1920
ttaaaccgca tgactattca gatggctact gagttatcag tggccattta ttagcatcat 1980
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tagtcatgac tttagctgat actcttatgt acgagatctg tctctgctgt ttaacttcat 2160
tggattaatc agctggtttc aactctactg cgaaacaaaa atagctcctt aaaagtactg 2220
ttctccttca gtggcatgta gttatctaat caagacacct cattcaaaca aaacctgcct 2280
taggaaaatt taatatattt taaattattt taaagaaat acaacatctt attctttagc 2340
```

```
tttcttaatc ggtgctttat ggaggccagt gtaacgttac atgactcgtt gagaaagttg 2400
aggaatttcc tctaccacct ttgttgcttg aagaaaaaca tgtcttttca aaatgagagg 2460
ctttcattga agaaaagaaa aaaacaacag ttaaaagctt ttggctctct gtttcatttt 2520
tttccattaa gaaaaaaaaa agtccccttt                                   2550
```

```
<210> 381
<211> 1268
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1262)
<223> n equals a,t,g, or c

<400> 381
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agcttccttg agcagtgggc ccaggcctgg ccctccacac ttcattctct gacctttctc 120
tctcctcatt tcggtgcatg tcctttctgc agctgccttt cagcacaggt ggttccactg 180
ggggcagcta acgctgagtg acaaggatgg gaagccacag gtgcatttta ctcaagtctt 240
ctctagtcaa tgaggggcac ccagtgcttc tagggcaggc tgggtggtgg tcccctaggt 300
atcagcctct cttactgtac tctccgggaa tgttaacctt tctattttca gcctgtgcca 360
cctgtctagg caagctggct tccccattgg ccctgtgggg tccacagcag cgtggctscc 420
ccccagggcc accgcttctt tcttgatcct ctttccttaa cagtgacttg ggcttgagtc 480
tggcaaggaa ccttgctttt agcttcacca ccaaggagag aggttgacat gacctccccg 540
cccctcacc aaggctggga acagagggga tgtggtgaga gccaggttcc tctggccctc 600
tccagggtgt tttccactag tcactactgt cttctccttg tagctaatca atcaatattc 660
ttcccttgcc tgtgggcagt ggagagtgct gctgggtgta cgctgcacct gcccactgag 720
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ccctaggatc caggactggg tcaaagctgc atgaaaccag gccctggcag caacctggga 840
atggctggag gtgggagaga acctgacttc tctttccctc tccctcctcc aacattactg 900
gaactctatc ctgttaggat cttctgagct tgtttccctg ctgggtggga cagaggacaa 960
aggagaaggg agggtctaga agaggcagcc cttctttgtc ctctggggta aatgagcttg 1020
acctagagta aatggagaga ccaaaagcct ctgatttta atttccataa aatgttagaa 1080
gtatatatat acatatatat atttctttaa atttttgagt ctttgatatg tctaaaaatc 1140
cattccctct gccctgaagc ctgagtgaga cacatgaaga aaactgtgtt tcatttaaag 1200
atgttaatta aatgattgaa acttgaaaaa aaaaaaaaaa aaaaaaaaa aaaaaaaana 1260
anaaaaaa                                                           1268
```

```
<210> 382
<211> 854
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
```

```
<222> (794)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (807)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (817)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (835)
<223> n equals a,t,g, or c

<400> 382
gcggacgcgt ggcggacgcg tgggtgctta tgaacatcca ggctccagcc ttttccctga 60
gggtcctaat gactatgtct tcagtcatct tccactccac tctcagcaac aagtgcgagc 120
ccctatcccc atggtgcccg ttggtgggat ccagatggtt cactccatgc cgccagccct 180
ttccagttta catccttcac ccacattgcc cctgccaatg gagggctttg aggagaagaa 240
aggcgcgtca ggggagtcct tctccaagga cccctatgtg ctttctaagc agcatgagaa 300
gcgaggtcct cacgctttgc agtcatctgg tccrcctagc actccctcct ctcctcggct 360
gttgatgaaa cagagcactt cggaagacag cctaaacgca acagagcggg aacaggagga 420
aaatatacag acttgtacaa aagccattgc ctctctccgg attgccacgg aagaggcagc 480
tctgctcggg ccagatcagc cagcgcgggt gcaggagccc caccagaacc ccctgggaag 540
tgcacatgtt agcattagac actttagtag acctgagcca ggtcagccct gtacctcagc 600
cacccaccct gacttgcatg atggtgaaaa ggacaatttt ggtacatcac agactccatt 660
agctcactcc acgtttttaca gcaagagttg tgtggrtgac aagcagttgg rcttttcaca 720
gcagcaaggg aattttcttt caagcacagr gggaaagcaa agatccttcc ttcaggaaaa 780
gagtycagct tacnttggtc ttttggntgg ctggggngat tttcctttttc ccacnttttt 840
cccctttttt tttg                                                    854

<210> 383
<211> 1091
<212> DNA
<213> Homo sapiens

<400> 383
gttttcagga ttgcattgtc tatgcaaaga ataaggcctg gcacatcata agcactcaaa 60
gtattatgtt tcttttttccc tattctaact cagcattatt ggtgcttctt atatgacttc 120
cctctcattt tatcagatgt gatgactgaa gcccaccaca aatatgacca ctctgaggct 180
acaggatcct caagctggga tatccaaaat tctttcagaa gagagaagct ggaacaaaaa 240
tccccagatt cgaagacact acaggaagat tcacctggag tgagacaaag ggtctatgag 300
tgccaggagt gtggaaaatc cttccggcaa aaaggtagtc taacgttaca tgagagaatc 360
cacactggtc aaaagccttt tgagtgcacc cactgtggaa aaagcttcag ggccaaaggc 420
aatcttgtta cacatcaacg gatacacacg ggagagaagc cttatcagtg caaggagtgt 480
gggaaaagct tcagtcaacg aggtagtctc gctgtccacg agagactcca cactggacag 540
aaaccctacg agtgtgctat ttgtcagaga agcttcagga atcagagtaa ccttgctgtt 600
```

```
cacaggagag ttcacagtgg tgagaagccc tatagatgtg atcagtgtgg aaaagccttc 660
agtcagaaag gaagcttaat tgttcacatc agagtccaca caggcctgaa gccctatgcc 720
tgtacccagt gcaggaagag tttccacacc agggggaatt gtattctgca tggcaaaatc 780
cacacaggag agacacccta tctgtgcggc cagtgtggaa aaagcttcac ccagagaggg 840
agtctggctg tgcaccagcg aagctgctca cagaggctca ccctttgacc actttcctga 900
agagaagttc tctttatgaa ttaagagtac aaaatcctct gagatgaagc aacctatcca 960
gttctatgga atgaatggag aatctttcag aaagaccatc attgggtagg gcaaactgat 1020
ttttttcctt tccccaaaa gagtatgaaa aataaatgtc ttgtttatta tcattaaaaa 1080
aaaaaaaaa a                                                      1091
```

<210> 384
<211> 1029
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1014)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1015)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1026)
<223> n equals a,t,g, or c

<400> 384

```
ggcacgagct ggtcaaggcc gttccgtcag tgttttcaga cgccctggga acgcggctgc 60
agggtccggt cttcggtttg cacagctaga ggccgcgcac agcaaaggat gagcggaacc 120
ttggaaaagg tgctgtgcct gaggaacaat accattttta agcaagcctt ttctctctta 180
aggtttagaa cttcaggaga gaagcccatc tattctgtag gtggaattct actaagtatc 240
agtcggccct acaagacaaa gcccacccac ggcattggaa agtacaagca cttaattaaa 300
gcagaagagc ccaagaagaa gaagggaaaa gtggaagtga gagccattaa tttggggaca 360
gattatgaat atggggtttt aaatattcat ctgactgcat atgatatgac cctggcagag 420
agttatgccc agtatgttca caacctctgc aactctctct ccattaaagt cgaggaaagt 480
tatgcaatgc caaccaaaac catagaagtg ttgcagttgc aggaccaagg cagcaaaatg 540
ctcctggact cagtgcttac cacccatgag cgagtggttc agatcagcgg tttgagtgct 600
acgtttgcag aaattttctt ggaaataatc caaagcagtc ttcctgaagg agtcagactg 660
tcagtgaagg agcacactga agaagacttc aagggacgat tcaaagctcg accagaactg 720
gaagaactgt tggccaagtt gaagtagcta ctgtagaccc tttcatgcca gcagtggtca 780
tattgagtgc caaagagaag agcttactgg gtagttagag ttcatcagga gacccaaccc 840
ttagatttca taagtaccca ttcccatagc cagtaatgtc ctcactcctc tgtggcttgg 900
ctgtacttgc catttcttac cacttaccta tgaggtaatg cttgttatct tccatctaat 960
aaaatctgc tgcagatgtg taaaaaaaaa aaaaaaaaa aaaaagaaa aaannaaaaa 1020
aaaaanaag                                                       1029
```

<210> 385

```
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (551)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (574)
<223> n equals a,t,g, or c

<400> 385
ccccgggtcg acccacgcgt ccgcccacgc gtccgcrcgg ccgactcgca agatggcgcc 60
gcagaaagac aggaagccca agaggtcaac ctggaggttt aatttggacc ttactcatcc 120
agtagaagat ggaattttttg attctggaaa ttttgagcaa tttctacggg agaaggttaa 180
agtcaatggc aaaactggaa atctcgggaa tgttgttcac attgaacgct tcaagaataa 240
aatcacagtt gtttctgaga aacagttctc taaaaggtat ttgaaatacc ttaccaagaa 300
ataccttaag aagaacaatc ttcgtgattg gcttcgagtg gttgcatctg acaaggagac 360
ctacgaactt cgttacttcc agattagtca agatgaagat gaatcagagt cggaggacta 420
ggcaaaggct cccccttacag ggctttgctt attaataaaa taaatgaagt atacatgaga 480
aataccaaga aattggcttt tagtttatca gtgaataaaa aatattatac tcttgaaaaa 540
aaaaaaaaaa nggcggccgt tttaaagatc cttnaggggc caa              583

<210> 386
<211> 2410
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2167)
<223> n equals a,t,g, or c

<400> 386
tatacccacg cgtccgcgga cgcgtgggtc gctgggctca gcagtgaagc tgcggacctt 60
cgcggagaac tatcctatcc ctgaaccagg cccaaatgag gtcttgctga ggatgcattc 120
tgttggaatc tgtggctcag atgtccacta ctgggagtat ggtcgaattg ggaattttat 180
tgtgaaaaag cccatggtgc tgggacatga agcttcggga acagtcgaaa aagtgggatc 240
atcggtaaag cacctaaaac caggtgatcg tgttgccatc gagcctggtg ctccccgaga 300
aaatgatgaa ttctgcaaga tgggccgata caatctgtca ccttccatct tcttctgtgc 360
cacgcccccc gatgacggga acctctgccg gttctataag cacaatgcag cctttttgtta 420
caagcttcct gacaatgtca cctttgagga aggcgccctg atcgagccac tttctgtggg 480
gatccatgcc tgcaggagag gcggagttac cctgggacac aaggtccttg tgtgtggagc 540
tgggccaatc gggatggtca ctttgctcgt ggccaaagca atgggagcag ctcaagtagt 600
ggtgactgat ctgtctgcta cccgattgtc caaagccaag gagattgggg ctgatttagt 660
cctccagatc tccaaggaga gccctcagga aatcgccagg aaagtagaag gtcagctggg 720
gtgcaagccg gaagtcacca tcgagtgcac gggggcagag gcctccatcc aggcgggcat 780
ctacgccact cgctctggtg ggaccctcgt gcttgtgggg ctgggctctg agatgaccac 840
```

```
cgtaccccta ctgcatgcag ccatccggga ggtggatatc aagggcgtgt ttcgatactg 900
caacacgtgg ccagtggcga tttcgatgct tgcgtccaag tctgtgaatg taaaacccct 960
cgtcacccat aggtttcctc tggagaaagc tctggaggcc tttgaaacat ttaaaaaggg 1020
attggggttg aaaatcatgc tcaagtgtga ccccagtgac cagaatccct gatgttaatg 1080
ggctctgccc tcatccccac agtcttggga tctcagggca caatggctgg acatgggtgg 1140
gctctgatgc agaactttct cttttgaatg ttaagaataa ctaatacaat tcattgtgaa 1200
cagaagtcct taagcagagg aattggtgtg ccttaaagat acaatctggg atagtttggg 1260
ggaacttgta gccagaatgc cctgttcatg ctgagcaaag ttcagcaagt agagcagagt 1320
ttggcaggca ggtgccagga actccccttc ttcctggagt gccttcattg aggaaggaaa 1380
tctggccctt gggtttcctg gttccactgc tactgaccca gaggggaatg agggctgagt 1440
tatgaaaaga taacttcatg aagacttaac tggcccagaa gctgattttc atgaaaatct 1500
gccactcagg gtctgggatg aaggcttgtc agcacttcca gtttagaacg caatgtttct 1560
agagacatat tggctgtttg ttttgatgat aaaaggagaa taagaaaagg catcactttc 1620
ctggatccag gataattttt aaaccaatca aatgaaaaaa acaaacaaac aaaaaaggaa 1680
atgtcatgtg aggttaaacc agtttgcatt cccctaatgt ggaaaaagta gaggactac 1740
tcagcactgt ttgaagattg cctcttctac agcttctgag aattgtgtta tttcacttgc 1800
caagtgaagg accccctccc caacatgccc cascccaccc ctaagyaygg tcccttgtca 1860
ccaggcaacc aggaaactgc tacttgtgga cctcaccaga gaccaggagg gtttggttag 1920
ctcacaggac ttcccccacc ccagaagatt agcatcccat actagactca tactcaactc 1980
aactaggctc atactcaatt gatggttatt agacaattcc atttctttct ggttattata 2040
aacagaaaat ctttcctctt ctcattacca gtaaaggctc ttggtatctt tctgttggaa 2100
tgatttctat gaacttgtct tattttaatg gtgggttttt tttctggtaa gattggacct 2160
aaatcgnatc atgcaactgt gacttgrcta tctcagatga gtatgtgcrt catcgtggct 2220
accttatctt attgcatgtg aagtagttag agctgttctg actggacgtt ccttggcggg 2280
gttgttgggg ggggatgtgt gtgaaaaata ttcggccgtt gggggttccg gccgctgcat 2340
ggcatcctac gcctcgtggg ggcccctttg agcgcgcggt ggcccgtctt ctcggtccaa 2400
ggccgcgccg                                                         2410
```

<210> 387
<211> 689
<212> DNA
<213> Homo sapiens

<400> 387
```
agtaggcaga gtttacaaag gtctaggatg acatctggtg tattgactgt ggccagtctt 60
aaagctagtt tttgctatgt ggaacatgct gctctaattc agatttaaag agtttcttcc 120
tgttaattcg aagctcactg tgcctcttgt ttccgaggga agaaggactg attaagtcat 180
ctaaatggat gcaatactga attacaggtc agaagatact gaagattact acacattact 240
gggatgtgat gaactatctt cggttgaaca aatcctggca gaatttaaag tcagagctct 300
ggaatgtcac ccagacaagc atcctgaaaa ccccaaagct gtggagactt ttcagaaact 360
gcagaaggca aaggagattc tgaccaatga agagagtcga gcccgctatg accactggcg 420
aaggagccag atgtcgatgc cattccagca gtgggaagct ttgaatgact cagtgaagac 480
ggtgggtttc tcgctgggtg cgacgtgaat ttgtgaagct caggatgccc atggattaga 540
ctcatgtagt agcttaaaga gtcattaggc gataggaggg agaaaaccaa gaagttagca 600
gagtctggat ataattcagt gtccgtaaat cccatgaaga gaagctcatc agaataaagg 660
caatgaattt gtgcyaaaaa aaaaaaaaa                                    689
```

<210> 388
<211> 798
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<400> 388
gctcgtgccg aattcggcac gagtgtaccc gagtttttga ttctcaacat gtccgagact 60
gctcctgccg ctcccgctgc cgcgcctcct gcggagaagg cccctgtaaa gaagaaggcg 120
gccaaaaagg ctggggggtac gcctcgtaag gcktccggtc ccccggtgtc agagctcatc 180
accaaggctg tggccgcctc taaagagcgt aggangtttc tctggctgct ctgaaaaaag 240
cgttggctgc cgccggctat gatgtggaga aaaacaacag ccgtatcaaa cttggtctca 300
agagcctggt gagcaagggc actctggtgc aaacgaaagg caccggtgct tctggctcct 360
ttaaactcaa caagaaggca gcctccgggg aagccaagcc caaggttaaa aaggcgggcg 420
gaaccaaacc taagaagcca gttggggcag ccaagaagcc caagaaggcg gctggcggcg 480
caactccgaa gaagagcgct aagaaaacac cgaagaaagc gaagaagccg ccgcggccac 540
tgtaaccaag aaagtggcta agagcccaaa gaaggccaag gttgcgaagc ccaagaaagc 600
tgccaaaagt gctgctaagg ctgtgaagcc caaggccgct aagcccaagg ttgtcaagcc 660
taagaagcgg cgcccaagaa gaaatagcga acgcctactt ctaaaaccca aaargctctt 720
ttcagagcca ccactgatct caataaaaga gctggataat ttctttaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaa                                               798
```

```
<210> 389
<211> 1691
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1575)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1630)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1636)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1651)
<223> n equals a,t,g, or c
```

<220>
<221> misc feature
<222> (1664)
<223> n equals a,t,g, or c

<400> 389
atttgggcct tatatgtcaa gccctttggt ttccgtctta ttttaggggt tgttatgggg 60
scctgggtgg tcggcctcac atgggaaggg gatgggtagt ggatgggggtt tctgttgtat 120
cttgtgggcg ggtaattttg cttttgtttt tgttcacatt cttccccctc cacaagccaa 180
agtcgtttca tttggtttcc actgtgtgga ctgtgctgga gcttggcgcc tgccagaaaa 240
atttggggct aggcaagccc caggttgcag acatggtgaa gcagagaaac tgttcttctg 300
gttcctgcac aacctcagag gggcaaaaac cctccccagg aaggaggagg gtgttcagga 360
gccagacttt tggagagaag gcagctccca gcctgctggg tgaccgccat tctgcgtgtg 420
ttccccagct gggcanggct ggaagcctta cgtatgaagc atggagaagc agccattgtc 480
cccactatgg gcagaggggg gacccggctg gccccttggg tcagactgga gccaacaccg 540
ccagccaccc cctctggctg ctggcaatgc cacaggtgcc caagaagatg gaggatccct 600
gtgccaggag ccaacctggt sttcccgagg gtcagtgccc cagtgaagac agaagcgaga 660
gaataaagtt ccctgtaggt cctctgtcac ctttgggttg tgtttttcaa ttgttgacat 720
ttcagagggg accctccaga agcccagccg gcttccccca aggactcccc cttcgctggg 780
agtggatttc cacacgtgcc tttgatttcg dacagattgg gcctcacagc caccgattca 840
gctgccaggg tccctggact gggggttggt gtttttctata gaggaggaaa ggccctccct 900
caccctgctc cccacccagg cagggcagca tgggacccag tgtctcagtg ccttcaaaac 960
ccacccccac ccctacccta ccccaccaca ccccatccca gaggccttgc ctgggcaamc 1020
ctaagcccct gtccctcgcc atacactgat gcctggcagc tagagcaaat ggctcgtgtt 1080
ctttgtcgaa gcctgtggtg agattgtttt gtttccttttt gttttgtgag tttgtttaaa 1140
attgaaatta gttattttct tctgctggac agtattaaat agagcaggat gttgagttaa 1200
tctgctagat tgcagtacta atggtagtgg tttagtgtct tcatgttaat attatttgta 1260
cttatttgaa caataatgat aaagaagtgg ttcattattt tttaattaat gcactttaaa 1320
taaggtagaa tggaaaaaac ccagagagca aagtgcatta cttaaagatg cagtatatac 1380
ttttctcatt tttaaacagc acatatttat taagagaaaa aaagtaattt atgactattt 1440
aaaataaaat ttaaaagtag agtgactgtc aggtaaagaa ccttcaatgt agctatcttc 1500
caagggggaa gggcctgcag cctccgctcc tcaaatgtct gcactgaacc agttccagtc 1560
actaattgcg ccaancaagg ccaggaagga attcaaaaca tgttctggcc aagcacaaga 1620
acatccccan tgggantgga acacaatgct ncccaaaaac ctgncttttcc tggccttccc 1680
caacaactgg g   1691

<210> 390
<211> 454
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (425)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (444)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (451)
<223> n equals a,t,g, or c

<400> 390
gcgacggcgc tggcttgccc ggctgggaga gggcgtaagc aaaatgatgc ttcaacaccc 60
aggccaggtc tctgcctcgg aagtgagtgc ttctgccatc gtcccctgcc tgtcccctcc 120
tgggtcactg gtgtttgagg attttgctaa cctgacgccc tttgtcaagg aagagctgag 180
gtttgccatc cagaacaagc acctctgcca ccggatgtcc tctgcgctgg aatcagtcac 240
tgtcagcgac agacccctcg gggtgtccat cacaaaagcc gaggtagccc ctgaagaaga 300
tgaaaggaaa aagaggcgac gagaaagaaa taagattgca gctgcaaagt gccgaaacaa 360
gaagaaggag aagacggatg cctgcagaaa gtgagtgcct tctaacctta cccttctctc 420
gctangcctg tctttaccaa cttnatgtgg ntat                              454

<210> 391
<211> 807
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (527)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (735)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (805)
<223> n equals a,t,g, or c


<400> 391
caagctctaa tacgactcac tatagggaaa gctggtacgc ctgcaggtac cggtccggaa 60
ttcccgggtc gacccacgcg tccgggcgga aaaccgaagt tggaagtgtc tcttagcagc 120
gcgcggagaa gaacgggggag ccagcatcat ggcagaacag gatgtggaaa acgatctttt 180
ggattacgat gaagaggaag agccccaggc tcctcaagag agcacaccag ctccccctaa 240
gaaagacatc aagggatcct acgtttccat ccacagctct ggcttccggg actttctgct 300
gaagccggag ctcctgcggg ccatcgtgga ctgtggcttt gagcatcctt ctgaggtcca 360
gcatgagtgc attccccagg ccatcctggg catggacgtc ctgtgccagg ccaagtccgg 420
gatgggcaag acagcggtct tcgtgctggc caccctacag cagattgagc ctgtcaacgg 480
acaggtgacg gtcctggtca tgtgccacac gagggagctg gccttcnaga tcagcaagga 540
```

```
atatgagcgc ttttccaagt acatgcccag cgtcaaggtg rgtcyntcgg ccagactgga 600
ccaggcgcca cttggkttct gmagctttgk tagcctcggc tctggcccar ccagcattta 660
ccaagcttgg caagggcagc tgcctttgaa ggtttgcagt ggttttttgct ccttaaaagc 720
ctgattgaat tatgncatgg ctcccagggg cctgcgccag ttcccagcct ggggctgcct 780
ttgaaatggg aaccccggga aggcnct                                    807
```

```
<210> 392
<211> 927
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (916)
<223> n equals a,t,g, or c

<400> 392
ctgcagcggg agctggatga ggccacggag agcaacgakg ccatgggcgc gaggtgaacg 60
cactcaagag caagctcagg cgaggaaacg agacctcttt cgttccttct agaaggtctg 120
gaggacgtag agttattgaa aatgcagatg gttctgagga ggaaacggac actcgagacg 180
cagacttcaa tggaaccaag gccagtgaat aagcaacttt ctacagtttt gcaccacggc 240
aagaaaacca aaaaccaaaa caaacaaaca aaaaaaaccc aacaacaacc cagaacaaag 300
caaaacccag cagactgtac ttagcattgt ctaaatccat tctcaaattc caaatatcac 360
agacacccct cmcacaggaa acttcgcagt gatgcaccag gcgaggaaac gagacctctt 420
tcgttccttc tagaaggtct ggaggacgta gaagttattg aaaatgcaga tggttctgag 480
gaggaaacgg acactcgaga cgcagacttc aatggaacca aggccagtga ataagcaact 540
ttctacagtt ttgcaccacg gcaagaaaac caaaaaccaa aacaaacaaa caaaaaaaac 600
ccaacaacaa cccagaacaa agcaaaaccc agcagactgt acttagcatt gtctaaatcc 660
attctcaaat tccaaatatc acagacaccc ctcacacaag gaatataaaa accaccaccc 720
tccagcctgg caacgtagt aaaaacctca tctatacaag attttaaaaa taagctgggc 780
gtggtggtac acacctgtgg tcccagctac tagggaggct gagccaggaa gaacgstyca 840
gcccaggayt tcgrggctgc aatgagctat aattgcatca ttgcactcca gcctgggcaa 900
cagagaccct gttttnaacc accacca                                    927
```

```
<210> 393
<211> 1023
<212> DNA
<213> Homo sapiens

<400> 393
ggcacgagcc accacgaggc caccaggtg actgcgggat tccgatctgc gccggagctg 60
cgatgctaga gcactcttgc cacccccacc ccacggacgt gttgcagtga tatcagaatt 120
ttgcgtgcgg tttacccgtg tttaacctct ttgcgtctcg cttctgaatc gtatccactt 180
gagcatcact agactgatct attttaacac tggtgggggg cagcgaggac atggtttttaa 240
actttaaaat gaaaatgtga aactaggaat gttgctgtga gacccccttgg acaaacagat 300
ttttgcactg gggatagaac ttgagcaatt tctgtcttgg cctcgccact gacgtccctt 360
ctttcctgtg gggacaggat ggacagattc ctggtgaaag gggctcaagg gggccttttg 420
aggaagcagg aggagcaaga gccaactgga gaagagccag ctgtgttggg aggagacaaa 480
gaaagcacaa ggaagaggcy caggagagag gccccaggga atggaggcca ctcagcaggc 540
cctagctggc ggcacattcg ggctgagggc ctggactgca gttacacagt cctgtttggc 600
aaagctgagg cagatgagat tttccaagag ttggagaaag aagtagaata ttttacaggt 660
```

```
ataaagatgg ctgtgaccac atcggggagc accgagatga tgaaagagaa ctggcccctg 720
ggagccccat tgcctctgtc tccttcggtg cctgcagaga ctttgtcttc cggcataagg 780
attcccgtgg gaaaagcccc tccaggaggg tggcggtggt caggctgccg ctggcccacg 840
ggagcttact aatgatgaac cacccgacca acacgcactg gtaccacagt cttcccgtga 900
gaaagaaggt tctggctcca cgggtgaatc tgacttttcg taaaattttg cttactaaaa 960
aataaaaaca tttttaacag ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaa                                                              1023
```

<210> 394
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (788)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (813)
<223> n equals a,t,g, or c

<400> 394
```
aaaaatttta aacaaagaaa ggaaaaaaat tgacaataaa agtcactctt ctaattgaat 60
attttatat ttttatgaaa caaaagagca tttcttcagg tttctattgt attttttta 120
acattcttgc agagaaagca agatccaaat tgattttggg atattaaaag ttaacagaac 180
actgaacaag gaaagaatgg catagatcta tctttacagt ctggagttaa ttcctgttaa 240
ctcattttat ccattcctta cataatcttc tttcctgtta gtccagtttg atggtgtgaa 300
tggtgaattt caggcccagt tgctaaattt tgtggcatct tcctctagtc cttcccacct 360
ccagtcatca gccccactct gtcttggaga caggcaggag gtggggaag agctgaatct 420
ctttattttc cctggtagag acatcttcaa ggcatgaaat agcttaaaga gcagagtaga 480
aatggaagag gctttgcaaa aggctagata actaacaaca cctgggttgg ggcggcggcc 540
tcttctcttn cagctccctt agcttggctc cgtaagtgga tcacttgcca aatgctttag 600
atgattgcct ctcaataatt gaaaggtggt ggtagttgta ttctaaatga tgtagaaggt 660
taaaaataat tacattatgc ttctattcta tcatctaaaa cmaatcatta aaactaattt 720
ctagctaaat kgttaattat aattatgctc agaatctatt aatgagctct gctggcttac 780
gactgcgngt taagagaaat ctttacaaga ccnaggcctg aa                   822
```

<210> 395
<211> 1702
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (1694)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1696)
<223> n equals a,t,g, or c

<400> 395
gcttcttttg tttctgatta tgttttctgc agagagacac gggctcaagg aacccaagag 60
agtggaagaa ctgcaaaaca agattgtaaa ttgtctcaaa gaccacgtga ctttcaacaa 120
tgggggggttg aaccgcccca attatttgts caaactgttg gggaagctcc cagaacttcg 180
taccctttgc acacaggggc tacagcgcat tttctacctg aaattggaag acttggtgcc 240
accgccagca ataattgaca aactttttcct ggcacacttta cctttctaag acctcctccc 300
aagcacttca aaggaactgg aatgataatg gaaactgtca agagggggca agtcacatgg 360
gcagagatag ccgtgtgagc agtctcagct caagctgccc cccatttctg taaccctcct 420
agcccccttg atccctaaag aaaacaamca aacaaacaaa aactgttgct atttcctaac 480
ctgcaggcag aacctgaaag ggcattttgg ctccggggca tcctggattt agaacatgga 540
ctacacacaa tacagtggta taaactttt attctcagtt taaaaatcag tttgttgttc 600
agaagaaaga ttgctataak gtataatggg aaatgtttgg ccatgcttgg ttgttgcagt 660
tcagacaaat gtaacacaca cacacataca cacacacaca cacacagaga gacacatctt 720
aaggggaccc acaagtattg cccyttaaca agacttcaaa gttttctgct gtaaagaaag 780
ctgtaatata tagtaaaact aaatgttgcg tgggtggcat gagttgaaga aggcaaaggc 840
ttgtaaattt acccaatgca gtttggcttt ttaaattatt ttgtgcctat ttatgaataa 900
atattacaaa ttctaaaaga taagtgtgtt tgcaaaaaaa araaaawaaa tacataaaaa 960
agggacaagc atgttgattc taggttgaaa atgttatagg cacttgctac ttcagtaatg 1020
tctatattat ataaatagta tttcagacac tatgtagtct gttagatttt ataaagattg 1080
gtagttatct gagcttaaac attttctcaa ttgtaaaata ggtgggcaca agtattacac 1140
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ttgtaagtgt tgtatgtacc gttgatgttg ataaaaagaa agtttatatc ttgattattt 1260
tgttgtctaa agctaaacaa aacttgcatg cagcagcttt tgactgtttc cagagtgctt 1320
ataatataca taactcccctg gaaataactg agcactttga attttttta tgtctaaaat 1380
tgtcagttaa tttattattt tgtttgagta agaattttaa tattgccata ttctgtagta 1440
ttttttctttg tatatttcta gtatggcaca tgatatgagt cactgccttt ttttctatgg 1500
tgtatgacag ttagagatgc tgattttttt tctgataaat tctttctttg agaaagacaa 1560
ttttaatgtt tacaacaata aaccatgtaa atgaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaag gggngnccgt tt   1702

<210> 396
<211> 858
<212> DNA
<213> Homo sapiens

<400> 396
cttgggcctc tgacatgact tatgtgtgtg tgtgttttttg gggtgggggag ggagggagag 60
aagaggggggc taaatttgat gctttaactg atctccaaca gttgacaggt catccttgcc 120
agttgtataa ctgaaaaagg actttttctac caggtatgac cttttaagtg aaaatctgaa 180
ttgttctaaa tggaaagaaa aaaagttgca atctgtgccc ttcattgggg acattcctct 240
aggactggtt tggggacggg tgggaatgac ccctaggcaa ggggatgaga ccgcaggagg 300
aaatggcggg gaggaggcat tcttgaactg ctgaggatgg ggggtgtccc ctcagcggag 360

```
gccaagggag gggagcagcc tagttggtct tggagagatg gggaaggctt tcagctgatt 420
tgcagaagtt gcccatgtgg gccccagcca tcagggctgg ccgtggacgt gcccctgccc 480
actcacctgc ccgcctgccc gcccgcccgc atagcacttg cagacctgcc tgaacgcaca 540
tgacatagca cttgccgatc tgcgtgtgtc cagaaggtgc ccttggccga gcgccgaact 600
cgctcgccct ctagatgtcc aagtgccacg tgaactatgc aatttaaagg gttgacccac 660
actagacgaa actggactcg tacgactctt tttatatttt ttatacttga aatgaaatcc 720
tttgcttctt ttttaagcga atgattgctt ttaatgtttg cactgattta gttgcatgat 780
tagtcagaaa ctgccatttg aaaaaaagtt attttttatag cagcaaaaaa aaaaaaaaaa 840
rakcaaaggw tttcattt                                                   858
```

```
<210> 397
<211> 1110
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (996)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1106)
<223> n equals a,t,g, or c

<400> 397
cggctgggct gcggaaacgc ggccggtccg gttccgcggc ccaggcagag ggactctgca 60
agcaatggct gcagcgcgcc tggcaagagc ggcgcctgct gctgcgggag ccgcgctaca 120
cgctgctggt ggccgcctgc ctctgcctgg cggaggtggg catcaccttc tgggtcattc 180
acagggtggc atacacagag attgactgga aggcctacat ggccnaggta gaaggcgtca 240
tcaatggtac ctatgactat acccaactgc agggtgacac cggaccactt gtgtacccag 300
ctggtttcgt gtacatcttt atggggttgt actatccac cagccgaggc actgacatcc 360
gcatgcccca gaacatcttt gctgtgctct acctggctac cttgctgctt gtcttcttga 420
tctatcacca gacctgcaag taacctccct tcgtcttttt cttcatgtgc tgcgcctctt 480
accgtgtcca ctccatcttt gtgctgcggc tcttcaatga cccagtggcc atggtgctgc 540
tcttcctcag tatcaacctc ctgctggccc agcgctgggg ctggggttgc tgctttttca 600
gcctggcagt ctctgtgaag atgaatgtgc tgctcttcgc ccctgggtta ctgtttcttc 660
tcctcacaca gtttggcttc cgtggggccc tccccaagct gggaatctgt gctggccttc 720
aggtggtgct ggggctgccc ttcctgctgg agaaccccag cggctacctg tcccgctcct 780
ttgaccttgg ccgccagttt ctgttccact ggacagtgaa ctggcgcttc ctcccagagg 840
cgctcttcct gcatcgagcc ttccacctgg ccctgttgac tgcccacctc accctgctcc 900
```

```
tgctgtttgc cctctgcagg tggcacagga cagggggaaag tatcttgtcg ctgctgaggg 960
atccctccaa aaggaaggtt ccaccccagc cccttnacac ccaaccagat cgtttytaac 1020
ccttttcaac tccaatttca ttgggsatct ggtttcagsc gkttccttcc attaacagtt 1080
tttaaggttt gggtattttn caaaanattg                                    1110
```

<210> 398
<211> 864
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (823)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (830)
<223> n equals a,t,g, or c

<400> 398
```
gcggcacgtg gcgcgggtgc ggggcgtgga gtggcgtggc gtggagtggc gtggcgtggc 60
ggggtctcgc ggcgcgggcg cgcacccgga gctgtggacg gagagtgcct ccctctggcc 120
tcagtttcct catgttgtag tagcggacat ggcccggacc ggccsccgag accgccccgt 180
gcaacctcac cgccagcctg ggggcctcag cgactgggac gggaccaagg ggctcggggga 240
ttctccctgc cccccggccct ggtgcgtgac tgaccctcct gttcccagag cccccagcgc 300
argccgggat gttcgtcctg gtggaaatgg tggacaccgt ccggatcccc ccttggcagt 360
ttgagaggaa gctcaacgac tccattgccg aggagctgaa caagaagttg gccaacaagg 420
tcgtgtacaa cgtgggactc tgcatttgtc tgtttgatat caccaaactg gaggatgcct 480
atgtattccc tggggatggc gcatcacaca ccaaagtcca ttttcgctgc gtggtgtttc 540
atccattcct agatgagatt ctcattggga agatcaaagg ctgcagccca gaaggagtgc 600
acgtctctct aggcttcttc gatgacattc tcatcccccc agagtcactg cagcagccag 660
ccaagttcga cgaagcggag caggtgtggg tgtgggagta cgagacggag gaaggagcac 720
acgacctcta catggacacc ggcgaggaga tccgcttccg ggtggtggac gagagctttg 780
ttgacacgtc ccccacargg cccagytcag cagatgccac cantttccan tgargagctg 840
ccaaagaagg aggctccgtt acac                                         864
```

<210> 399
<211> 271
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

```
<400> 399
tggattttta taaggccaga catttacctc tggtaatctc ttgagccatg tgtttcattt 60
ttatgctcac agaataattt ggtgtaatgg ggcttatyaa cccaaatttc agaactttaa 120
attcatgtat ctttttctac actgatgact atactcaaag catcttactt taattatata 180
aatgtatata ctgtctttct caactggggt ttcaagagag aattaagccc aaaataaaat 240
aatttgtgtg ngcttatttt ctncattttt c                                   271

<210> 400
<211> 925
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (635)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (844)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (900)
<223> n equals a,t,g, or c

<400> 400
ctcgtgccga attcggcacg agcasgagcg cgtgctcagt gtgctgggta cagncgactc 60
cgggacaggg ggtctcggcc gtcggcgtca tggtttcgcg cgtgcagctc ccgcctgaga 120
tccagctggc tcagcgcctg gcggggaatg agcaggtgac ccgggaccgg gcggtgagga 180
agctccggaa atacatcgtc gccaggactc agcgggccgc agtggtttta cgcacgacga 240
gctgctgaag gtgtggaaag gactgtttta ttgcatgtgg atgcaggaca agccactcct 300
ccaggaagaa ttaggaagga ctatttccca gctcgttcat gcttttcaga ccacggaggc 360
gcanacctgt tccttcaggc cttctggcag accatgaatc gcgagtggac gggcattgac 420
aggctgcgct ggataaattc tacatgctca tgcggatggt cctgaacgag tccttgaagg 480
ytctgaagat gcaaggctgg aagaaagac agatcgagga gctgctagag ctgctgatga 540
ctgaratcct gcaccccagc agccaggccc ccaacggtgt gaagagccac ttcatcgaga 600
tcttcctgga ggagctgacc aaagtgggcg ccgangsagc ttacggcaga ccagaacctg 660
gaagttcatc gacccccttct gcagaatcgc tgcccggacc aaggattcct tggttttgaa 720
```

```
caacatcact cgaggcatct ttgagacgat tgtggagcag gccccgcttg ccattgaaga 780
cctcctgaat gaactggaca cacaggatga ggaggtggcg tcggacagtg atgagtcctc 840
tganggcggt gaacgttgag acgcgctgtc ccagaagagg tctgagaagc cgcccgcagn 900
ttccatctgc agggctgaac ctgag                                        925
```

```
<210> 401
<211> 1085
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (774)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1080)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1085)
<223> n equals a,t,g, or c

<400> 401
cggacgcgtg ggtgctgggg ctgcagmgct gcctccgaga ccgcgaggtg ggtggagcgg 60
gtcttcctgg aagggtgcga taaggccggg cgaggtgcct gggatgcttc tccccttccg 120
cgaggaagag atctaattgg gtagggcggg tgtagactag cctgccgagc cgcccgctgg 180
cacctgcagc ctcctgggcg cccgccgggc cccggcgaga aagttgttaa agggagcgag 240
gtggttgttc ctggggtccg aggcgcgcct ctcacgccct gcccaacaga agccgcagtc 300
ccgtggggtc tggagacgca gtttcctgtt aatgacaata aatccctgct ccccctgcct 360
cagacatcta cgcagcgaaa tcgagcctgg ccttgagggt ccacaccgcg agggaagatg 420
cgtgcgccca ttccagagcc taagcctgga gacctgattg aratttttcg cccttctac 480
agacactggg ccatctatgt tggcgatgga tatgtggttc atctggcccc tccaagtgag 540
gtcgcaggag ctggtgcagc cagtgtcatg tccgccctga ctgacaaggc catcgtgaag 600
aaggaattgc tgtatgatgt ggccgggagt gacaagtacc aggtcaacaa caaacatgat 660
gacaagtact cgccgctgcc ctgcagcaaa atcatccagc gggcggagga gctggtgggg 720
caggaggtgc tctacaagct gaccagtgag aactgcgagc actttgtgaa tganctgcgc 780
tatggagtcg cccgcagtga ccaggtcaga gatgtcatca tcgctgcaag cgttgcagga 840
atgggcttgg cagccatgag ccttattgga gtcatgttct caagaaacaa gcgacaaaag 900
caataactga aaaagactgt cctgtcagcg atgactttat acatcaaggg ggtcttgttt 960
tgctagagag tttggggttt ggtttgtgga tttcattgtg atttataata aggcttattt 1020
tcacagaata aaataaagca aaacgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaan 1080
ggggn                                                             1085
```

```
<210> 402
<211> 348
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<400> 402
ctttccccaa cccccckggsc cgggggggttt gggcccgggg gcccccgggc ctttcctttta 60
aaggnaaaac ccttwaaggg tttggggaaa ttcccccccc cccggggggg gccctttgcc 120
caaagggaa aaatttttccg ggggccaaanc cggaaaggcc ccaaaaaagg ttccccccgg 180
ggaaggaatc cccggttgga attgttaaaa ccaaaagggg aattttgaag gccggaaatt 240
cgggttgccc cccaacttcc cccaacattc ccgggggggac ttggggggctg gaacgatgcc 300
ttgggagnct tcggcaagct tcgcaaggct ggttggtcag ctngcgca                348

<210> 403
<211> 1470
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<400> 403
tggngctcca ccgcggtgac gaccgctcta gaactagtgg atcccccggg ctgcaggaat 60
tcggcagagg cagwgccggc gtgggcggcc ggccgaggcg gaggcgcagg aaggggggckg 120
cgagtcgtgc gaggctgccc ttctcactca gcattatgga tccaagcctg ttgagagaaa 180
gggagctgtt caaaaaacga gctctttcta ctcctgtagt agaaaaacgt tcagcatctt 240
ctgagtcatc atcatcatcg tcaaagaaga agaaaacaaa ggtagaacat ggaggatcgt 300
caggctctaa acaaaattct gatcatagca atggatcatt taacttgaaa gctttgtcag 360
gaagctctgg atataagttt ggtgttcttg ctaagattgt gaattacatg aagacacggc 420
atcagcgagg agatacgcat cctctaacct tagatgaaat tttggatgaa acacaacatt 480
tagatattgg actcaagcag aaacaatggc taatgactga ggctttagtc aacaatccca 540
aaattgaagt aatagatggg aagtatgctt tcaagcccaa gtacaacgtg agagataaga 600
aggccctact taggctctta gatcagcatg accagcgagg attaggagga attcttttag 660
aagacataga agaagcactg cccaattccc agaaagctgt caaggctttg ggggaccaga 720
```

```
tactatttgt aaatcgtccc gataagaaga aaatactttt cttcaatgat aagagctgtc 780
agttttctgt ggatgaagaa tttcagaaac tgtggaggag tgtcactgta gattccatgg 840
acgaggagaa aattgaagaa tatctgaagc gacagggtat ttcttccatg caggaatctg 900
gaccaaagaa agtggcccct attcagagaa ggaaaaagcc tgcttcacag aaaaagcgac 960
gctttaagac tcataacgaa cacttggctg gagtgctgaa ggattactct gacattactt 1020
ccagcaaata gggaacagtt ttgccctgga acagagttac agatacacaa tcaagagtgt 1080
tcttgctgat gctcggggtc tgaagactgt cttcctatct gcttcttgcg gctgaggaga 1140
ggagcagttc agtttacaaa acaagtgcaa attaccaaac tcaaagctta tttgagtaga 1200
atgggctcat gggcaatgtg atgttccctg ttaaccttct gttactccct gggagaaagg 1260
cgctgagcgt ggcatgcagg tgtctttgct gtgtttttct ccacttctaa atggttcctg 1320
gttcctttct tcctcgtttg ttactttaga gcaagtttgc ccatagtctt gaatgcaata 1380
tttgtttatt ccaaaagaac atatttataa taaaatcact gtagaaggat taaaaaaaaa 1440
aaaaaaaaaa aaaaaaaaaa aggggagggg                                   1470
```

<210> 404
<211> 2487
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<400> 404
```
tgcggccgcc ggtcctccct ccacctcctc ctcggccccc cctcgcttcc ctcctcccac 60
ttcccgagct ccggcgtngt cccggccacg ctcgacgctg ctgcaggaac aaaggaagac 120
cccgcggcgg cgcggcgcca cctccgcctg ctgctccgac ccgctcccgg cccgcggcgg 180
cggcaccagg cgcccggct cagccttccc ggaggcctcg gcccggcctc atcgtgccgg 240
cttcgcgcgc gaacccggct ttcgcatttg ggaccctgca ggcagaaaaa tatggctcag 300
gagactaacc agaccccggg gcccatgctg tgtagcacag gatgtggctt ttatggaaat 360
cctaggacaa atggaatgtg ttcagtttgc tacaaagaac atcttcagag gcagcaaaat 420
agtggcagaa tgagcccaat ggggacagct agtggttcca acagtcctac ctcagattct 480
gcatctgtac agagagcaga cactagctta aacaactgtg aaggtgctgc tggcagcaca 540
tctgaaaaat caagaaatgt gcctgtggct gccttgcctg taactcagca aatgacagaa 600
atgagcattt caagagagga caaaataact accccgaaaa cagaggtgtc agagccagtt 660
gtcactcagc ccagtccatc agtttctcag cccagtactt ctcagagtga agaaaaagct 720
cctgaattgc ccaaaccaaa gaaaaacaga tgtttcatgt gcagaagaa agttggtctt 780
acagggtttg actgccgatg tggaaatttg ttttgtggac ttcaccgtta ctctgacaag 840
cacaactgtc cgtatgatta caaagcagaa gctgcagcaa aaatcagaaa agagaatcca 900
gttgttgtgg ctgaaaaaat tcagagaata taaattactt cttgtgaaga gactgaaact 960
ttgttttat tttaatatat cgtaggaaaa cattaaagag cagatgcatg gccattttc 1020
tttgatgttc tccagagttt tacattacac ttgtctgtct tataattgat attttaggat 1080
gtttgggtgt ttgttacagg cagaattgga tagatacagc cctacaaatg tatatgccct 1140
cccctgaaaa aaattggatg aaaatctgca cagcaaagtg aaacacacag ataataggaa 1200
caaaatgtag ttcccatgtg ccaaacaaaa taaatgaaat ctctgcatgt ttgcagcata 1260
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cctctttaat ttcacaacat attctttgga agcaggaaga aatgctcata aagaggatca 1440
gaccttcttt cccgtgaaac cagtatttgg cgccatatat aagcctggtt aaattggtca 1500
tctaaagctg tcaaataaga cattctgtga aaggtaaaca tcgaaactgg ttataagtaa 1560
```

```
aaccatcaag ccaacaacag ggtcttgaga taacctttga agcttattgt actggcctgc 1620
accagaagat gtctgcatta ctcattgcta aaaatgtgta gcacagaact gcactaggat 1680
taatttgttt acaagaagaa atttaaactc tacgtttggt tttcacatac agcagctcta 1740
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ggactctagt gttcttgggt gtattgcatg ggctgcatta tctacagcat tgtacaataa 2040
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taatggaagg tttttgtga tgtatgaaac ttgtgttttt tatatataaa tgagtatagt 2160
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ttgctttcaa ttttatgtac cttagttctg agttagacct gcagatgtgt acagatagtt 2340
catatttatg tattgcacat aatcatgcta ttcagcattg atgctatatt gtattatgta 2400
aataataaaa gccatgtaca gagggaaaaa aaaaaaaaaa aaaaaaaac tcgagactag 2460
ttctctctct ctctctctcc tcgtgcc                                     2487
```

```
<210> 405
<211> 1256
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1180)
<223> n equals a,t,g, or c

<400> 405
ggcctcctgc ctgtagtgtg tgggctgggg ttggtgcgag cttccagctt ggccgcagtt 60
ggttcgtagt tcggctctgg ggtcttttgt gtccgggtct ggcttggctt tgtgtccgcg 120
agtttttgtt ccgctccgca gcgctcttcc cgggcaggag ccgtgaggct cggaggcggc 180
agcgcggtcc ccggccagga gcaagcgcgc cggcgtgagc ggcggcggca aaggctgtgg 240
ggaggggggct tcgcagatcc ccgagatgcc ggagttcctg gaagacccct cggtcctgac 300
aaaagacaag ttgaagagtg agttggtcgc caacaatgtg acgctgccgg ccggggagca 360
gcgcaaagac gtgtacgtcc agctctacct gcagcacytc acggctcgca accggccgcc 420
gctccccgcc ggcaccaaca gcaagggggcc cccggacttc tccagtgacg aagagcgcga 480
gcccaccccg gtcytcggct ctggggccgc cgccgcgggc cggagccgag caccgtcggc 540
aggaaagcca caaaaaaaac tgataaaccc agacaagaag ataaagatga tctagatgta 600
acagagctca ctaatgaaga tcttttggat cagcttgtga aatacggagt gaatcctggt 660
cctattgtgg gaacaaccag gaagctatat gagaaaaagc ttttgaaact gagggaacaa 720
ggaacagaat caagatcttc tactcctctg ccaacaattt cttcttcagc agaaaataca 780
aggcagaatg gaagtaatga ttctgacaga tacagtgaca atgaagaagg aaagaagaaa 840
gaacacaaga aagtgaagtc cactagggat attgttcctt tttctgaact tgggaactac 900
tccctctggt ggtgggattt tttcagggta tttcttttcc tgaaatctcc acccgtcctc 960
ctttgggcag taccgaacta caggcagcta agaaagtaca tacttctaag ggrgacctac 1020
ctagggagcc tcttgttgcc acaaacttgc ctggcagggg acagttgcag aagttagcct 1080
ctgaaaggaa tttgtttatt tcatgcaagt ctagccatga taggtgttta gaggaaaagt 1140
tcttcgtcat cttctcagcc tggaacacag tgccatgttn gtgtctactg cagcttttcc 1200
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```

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<210> 406
```

```
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<400> 406
gttcttctaa atcaggaatg gattgaaatc taatgaaccg aaactttggg tacttcggcc 60
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ccagggacac ccaattcatc gtaatcatca tgaataatca aaaagtggta gctgtgctac 180
tgcaagagtg caagcaagtn ctggntcagc tcttgttgga agcgccagat gtgtcggaag 240
aggacaagag cgaggaccag cgctgcagag ctttactccc cagcgagtta aggaccctga 300
tccaggaggc aaaggaaatg aagtggccct tcgtgcctga aaagtggcag tacaaacaag 360
ccgtgggccc agaggacaaa acaaacctka aggatgtgat tggcgccggg ttgcagcagt 420
tactggcgtc cctgagggcc tccatcctcg ctcgggactg tgcggctgcg gcggctattg 480
tgttcttggt ggaccggttc ctgtatgggs tcgacgtctc tggaaaactt ctgcaggtcg 540
ccaaaggtct ccacaagttg cagccagcca cgccaattgc cccgcaggtg gttattcgcc 600
aagcccgaat ctccgtgaay tcaggaaaac ttttaaaagc agagtatatt ctgagcagtc 660
taataagcaa caatggagca acgggtacct ggctgtacag aaatgaaagt gacaaggtcc 720
tggtgcagtc ggtctgtata cagatcagag ggcagattct gcaaaagctg g          771

<210> 407
<211> 2643
<212> DNA
<213> Homo sapiens

<400> 407
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aaggacatga gaaaggcgtg aattgcattg attactacag tggtggggac aagccatacc 120
tcatttcagg tgcagatgac cgtcttgtta aaatatggga ttatcagaat aaaacatgtg 180
tgcagacact ggaaggacat gcccaaaatg tgtcttgtgc cagctttcat cctgagttgc 240
caatcattat cacaggttca gaagatggaa cagtacgtat ttggcattca agcacctacc 300
ggcttgagag cacactgaat tatggaatgg agagggtatg gtgcgtggcc agtctaagag 360
ggtcaaacaa tgtcgctttg ggctatgatg aagggagcat cattgttaag cttggtcggg 420
aggaacctgc catgtccatg gatgccaatg gaaagataat ttgggccaag cattcagaag 480
tccagcaggc caacctaaaa gcaatgggag atgctgaaat taaagatggt gaaagattgc 540
cactggcagt aaaggatatg ggcagttgtg aaatataccc tcagactatt cagcacaatc 600
ctaatgggcg gtttgtggtg gtgtgtggtg atggggagta tatcatctac acagcaatgg 660
cattgagaaa caagagcttt ggatctgctc aggagtttgc atgggcccac gattcttcag 720
agtatgcaat aagagagagc aacagcattg taaagatatt taagaacttt aaggaaaaaa 780
aatcatttaa accagatttt ggagcagaaa gtatctacgg cggcttctta ttgggagtca 840
gatctgtaaa tggcttagcc ttctatgact gggacaatac agaactcata cgaagaattg 900
aaattcagcc caaacatatt ttctggtctg actctggaga gctagtctgt attgctactg 960
```

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atgagggagt tactgaagat ggcattgaag atgcctttga ggttcttggt gagattcagg 1080
aaattgtgaa aacagggctt tgggtaggcg attgcttcat ttacacaagt tctgtgaaca 1140
gattaaatta ttatgttgga ggagaaatag tcaccattgc ccacttggac aggacgatgt 1200
atctcctagg ctacattcct aaagacaaca ggctttatct gggggataaa gaattgaaca 1260
tcattagcta ttccctgctg gtttcagtcc tggaatacca gacagctgtc atgcggaggg 1320
actttagcat ggctgataag gtccttccta ccattccaaa agaacagagg accagagttg 1380
cacacttttt ggaaaagcag ggcttcaagc agcaagctct tacagtatcc acagatcctg 1440
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tggaagcaga gtcagaacag aagtggaaac aacttgctga acttgccatt agtaaatgtc 1560
agtttggcct agcccaggag tgcctgcatc atgcacagga ttatgggggc ctgctgcttt 1620
tggccactgc ctctggaaat gctaatatgg tgaacaagct agcagagggt gcggagagag 1680
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aacaataccc acttgtcacg ccaaatgaag agagaaatgt catggaagag ggaaaagact 2040
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cggttattgt ggcctcccac acagccaaca agaagaaaa gagtttactc gaactagaag 2160
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gattttttc atactattag accatatctc ataaaaccctt ttgaattaat gaaggtactt 2520
gtttcctttc tcaataatga aaataggctt ctagttttag aaggctgagc cgaaactaca 2580
ccttgcctag ggatcagccc cactgtcttt tctttgtata actwaatctg cattttcaaa 2640
tgt                                                                   2643
```

<210> 408
<211> 1646
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<400> 408

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caacactgtg gttatgaagg tggcagagca gacccccctc tctgccctgt atttngcctc 60
cctcatcaag gaggcaggct ttccccctgg ggtggtgaac atcatcacgg ggtatggccc 120
aacagcaggt gcggccatcg cccagcacat ggatgttgac aaagttgcct tcaccggttc 180
caccgaggtg ggccacctga tccagaaagc agctggcgat tccaacctca agagagtcac 240
cctggagctg ggtggtaaga sccccagcat cgtgctggcc gatgctgaca tggagcatgc 300
cgtggagcag tgccacgaag ccctgttctt caacatgggc cagtgctgct gtgctggctc 360
ccggaccttc gtggaagaat ccatctacaa tgagtttctc gagagaaccg tggagaaagc 420
aaagcagagg aaagtgggga acccctttga gctggacacc cagcaggggc ctcaggtgga 480
caaggagcag tttgaacgag tcctaggcta catccagctt ggccagaagg agggcgcaaa 540
actcctctgt ggcggagagc gtttcgggga gcgtggtttc ttcatcaagc ctactgtctt 600
```

```
tggtggcgtg caggatgaca tgagaattgc caaagaggag atctttgggc ctgtgcagcc 660
cctgttcaag ttcaagaaga ttgaggaggt ggttgagagg gccaacaaca ccaggtatgg 720
cctggctgcg gctgtgttca cccgggatct ggacaaggcc atgtacttca cccaggcact 780
ccaggccggg accgtgtggg taaacaccta caacatcgtc acctgccaca cgccatttgg 840
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agaggtaaag acggtcacca tcaaggttcc tcagaagaac tcgtaagagc agctgtcagg 960
gaggcccagt cacagtccag caattccaca accaccttga ccaatgcttg ccaagctgtt 1020
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aaagcaattc aatcaaggct gttctattta aatcagagat ggggaccagg ctcagagttc 1140
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cttcattggc ttaacctaaa aaccagaggt gcttttcctt gtctgtgtgc cagttgctgg 1440
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aggcaaagaa tatgcttaca tgattacacc tgtaaagtaa gcccaaacat yccaaatgtc 1560
catcaactga tgagtggatt aataaaatgt ttccatggaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaa                                     1646
```

<210> 409
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<400> 409

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ctgcacccag gtgaaataga cagccatgtt gctcacacaa agcctgtttg ctggtctctt 60
cacactgact cgagtgaaat ttggtgccgt gactaggatc gggggacctc ccttgggaga 120
tcaatccccc gtcctcctac actttnctct gtgagaaaga tccacctaca acctcaggtc 180
ctcagaccra ccagcccaag aaacatctca ccaatttcaa atctggcacc cactggaaat 240
cagactgccc agctcgcccg acagccactc ctggagcccc taaagctcta gcccaaggct 300
ctctgactcc ttcccagatc tattcggctt agcgactgaa gattgacgct gcccgatcgc 360
ctcggaagtc ccctggacca tcacagaagc cgagcttcgg gtaactctca cagtggaggg 420
taagtccatc ccctgtttaa tcgatacggg ggctacccac tccacgttgc cttctttcca 480
agggcctgtt tcccttgccc ccataactgt tgtgggtatt gacggcaagc ttcaaaacc 540
cctgaaaact cccccactct ggtgccaact tggacaacac tcttttatgc actcttttttt 600
agttatcccc acctgcccac ttcccttatt aggccgaaat attttaacca aattatctgc 660
ttccctgact attcctggag tacagctaca tctcattgct gcccttcttc ccaatccaaa 720
gcctcctttg tgtcctctaa catccccaca atatcacccc ttaccacaag acctcccttc 780
agcttaatct ctcccactct aggttcccac gccgcccta atcccacttg aagcagccct 840
gagaaacatc gtccattctc tctccatacc acccc                          876
```

<210> 410
<211> 1850
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (1817)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1848)
<223> n equals a,t,g, or c

<400> 410
gcccacgcgt ccgcggacgc gtggggccat ttttgctgcc cggacgcgga gcgagaggct 60
gagagagtcg gagacactat ccgcttccat ccgtcgcgca gaccctgccg gagccgctgc 120
cgctatggat gatcgagagg atctggtgta ccaggcgaas ctggccgagc aggctgagcg 180
atacgacgaa atggtggagt caatgaagaa agtagcaggg atggatgtgg agctgacagt 240
tgaagaaaga aacctcctat ctgttgcata taagaatgtg attggagcta gaagagcctc 300
ctggagaata atcagcagca ttgaacagaa agaagaaaac aagggaggag aagacaagct 360
aaaaatgatt cgggaatatc ggcaaatggt tgagactgag ctaaagttaa tctgttgtga 420
cattctggat gtactggaca aacacctcat tccagcagct aacactggcg agtccaaggt 480
tttctattat aaaatgaaag gggactacca caggtatctg gcagaatttg ccacaggaaa 540
cgacaggaag gaggctgcgg agaacagcct agtggcttat aaagctgcta gtgatattgc 600
aatgacagaa cttccaccaa cgcatcctat tcgcttaggt cttgctctca atttttccgt 660
attctactac gaaattctta attcccctga ccgtgcctgc aggttggcaa aagcagcttt 720
tgatgatgca attgcagaac tggatacgct gagtgaagaa agctataagg actctacact 780
tatcatgcag ttgttacgtg ataatctgac actatggact tcagacatgc agggtgacgg 840
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ccaacaagag aaaccatctc tgaccacccc ctcctcccca tcccaccctt tggaaactcc 960
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cttgcctact ttactctccc actgaagcag gttagcgttg aaggtggtat ggaaaagcct 1560
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tttgtactac tggatatctg actggagcca cagatacaga atctgtattg ttcttactga 1740
aacacagcat ggaattaaca ttaaacttaa ataaacaaa cctaaattaa aaaaaaaaaa 1800
aaaaaaaac amgggnggg cccggtaccc attsccccta aaggggngg 1850
```

```
<210> 411
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (518)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (568)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (648)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

<400> 411
acactataga aatgtacgcc tgcaggttac cggtccggaa attcccgggt cgacccacgc 60
gtccggtggt tgactctgag gatctgcccc tgaaacatct cccgagaaat gctccagcag 120
agcaaaatct tgtaaagtca ttcgcaaaaa cattgttaag aagtgccttg agctcttctc 180
tgagctggca gaagacaagg agaattacaa gaaattctat gaggcattct ctaaaaatct 240
caagcttgga atccacgaag actccactaa ccgccgccgc ctgtctgagc tgctgcgcta 300
tcatacctcc cagtctggag atgagatgac atctctgtca gagtatgttt ctcgcatgaa 360
ggagacacag aagtccatct attacatcac tggtgagagc aaagagcagg tggccaactc 420
agcttttgtg garcgagtgc ggaaacgggg cttcsaagtg gtwtatatga mcgarcccat 480
tgacrartwc tgtgtgcagc arctcmagga atttgawngg aararmctgg tcycagttac 540
caaggaggtc tggarctgcc tgaggtnnag gagagaagaa gaagatggaa gagagcaagg 600
caagtttaga ccttgcagct ctgaagaatc ttagttaaag ttagaagngc atcccatagn 660
t   661

<210> 412
<211> 1263
<212> DNA
<213> Homo sapiens

<400> 412
cgtccgctct agaactagtg gatcccccgg gctgcaggaa ttcggcacga gctccatctt 60
aaagaagatc agacagagta cctagaagag aggcgggtca aagaagtagt gaagaagcat 120
tctcagttca taggctatcc catcaccctt tatttggaga aggaacgaga gaaggaaatt 180
agtgatgatg aggcagagga agagaaaggt gagaagaag aggaagataa agatgatgaa 240
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aagaagaaaa ctaagaagat caaagagaaa tacattgatc aggaagaact aaacaagacc 360
aagcctattt ggaccagaaa ccctgatgac atcacccaag aggagtatgg agaattctac 420
aagagcctca ctaatgactg ggaagaccac ttggcagtca agcacttttc tgtagaaggt 480
cagttggaat tcagggcatt gctatttatt cctcgtcggg ctccctttga cctttttgag 540

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aacaagaaga aaaagaacaa catcaaactc tatgtccgcc gtgtgttcat catggacagc 600
tgtgatgagt tgataccaga gtatctcaat tttatccgtg gtgtggttga ctctgaggat 660
ctgcccctga acatctcccg agaaatgctc cagcagagca aaatcttgaa agtcattcgc 720
aaaaacattg ttaagaagtg ccttgagctc ttctctgagc tggcagaaga caaggagaat 780
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actaaccgcc gccgcctgtc tgagctgctg cgctatcata cctcccagtc tggagatgag 900
atgacatctc tgtcagagta tgtttctcgc atgaaggaga cacagaagtc catctattac 960
atcactggtg agagcaaaga gcaggtggcc aactcagctt ttgtggagcg agtgcggaaa 1020
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aaggaatttg atgggaagag cctggtctca gttaccaagg agggtctgga gctgcctgag 1140
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ctcatggggt atatgatggc caaaaagcac tggagatcaa ccctgaccac cccatttttg 1260
gag                                                                    1263
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<210> 413
<211> 1337
<212> DNA
<213> Homo sapiens

<400> 413
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taactcacgt ttytyttct tcctgtctgc ttggaaagat ggcgtcccgc aaggaaggta 60
ccggctctac tgccacctct tccagctcca ccgccggcgc acagggaaag gcaaaggcaa 120
aggcggctcg ggagattcag ccgtgaagca agtgcagata gatggccttg tggtattaaa 180
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gggtctggtt gtagaagatc ggcttgaaat taccaactgc tttcctttcc ctcagcacac 300
agaggatgat gctgactttg atgaagtcca atatcagatg gaaatgatgc ggascttcgc 360
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gttacccggg cactcctgga ctctcagttt agttaccagc atgccattga agaatctgtc 480
gttctcattt atgatcccat aaaaactgcc caaggatctc tctcactaaa ggcatacaga 540
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aaagcaaata tcacctttga gtacatgttt gaagaagtgc cgattgtaat taaaaattca 660
catctgatca atgtcctaat gtgggaactt gaaaagaagt cagctgttgc agataaacat 720
gaattgctca gccttgccag cagcaatcat ttggggaaga atctacagtt gctgatggac 780
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gaatacaaca actaagaaaa ggaagtttcc agaaaagaag ttaacatgaa ctcttgaagt 1140
cacaccaggg caactcttgg aagaaatata tttgcatatt gaaaagcaca gaggatttct 1200
ttagtgtcat tgccgatttt ggctataaca gtgtctttct agccataata aaataaaaca 1260
aaatcttgac tgcttgctca tttraaaaaa aaaaaaaaaa accccaaggg ggggccsggt 1320
cccattcccc cctttg                                                      1337
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<210> 414
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

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<222> (744)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (783)
<223> n equals a,t,g, or c

<400> 414
ggcacgaagg ggacgtggga aagtgttagc ggggaacgct gggaaactcc cggcctccgc 60
caccatcttg ctttcctta atccggcagt gaccgtgtgt cagaacaatc ttgaatcatg 120
aagctactaa ccagagccgg ctctttctcg agattttatt ccctcaaagt tgcccccaaa 180
gttaaagcca cagctgcgcc tgcaggagca ccgccacaac ctcaggacct tgagtttacc 240
aagttaccaa atggcttggt gattgcttct ttggaaaact attctcctgt atcaagaatt 300
ggtttgttca ttaaagcagg cagtagatat gaggacttca gcaatttagg aaccacccat 360
ttgctgcgtc ttacatccag tctgacgaca aaaggagctt catctttcaa gataacccgt 420
ggaattgaag cagttggtgg caaattaagt gtgaccgcaa caagggaaaa catggcttat 480
actgtggaat gcctgcgggg tgatgttgat attctaatgg agttcctgct caatgtcacc 540
acagcaccag aatttcgtcg ttgggaagta gctgaccttc agcctcagct aaagattgac 600
aaagctgtgg cctttcagaa tccgcagact catgtcattg aaaatttgca tgcagcagct 660
taccggaatg ccttggctaa tcccttgkat tgtcctgact ataggattgg aaaagtgaca 720
tcagaggagg taccaakraa actntaaaga aattggcgct agaatacttg gagcaatggc 780
agnatcaata ga                                                   792

<210> 415
<211> 1342
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1036)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1038)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1099)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (1224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1338)
<223> n equals a,t,g, or c

<400> 415
gcccctccgg gttaggcggc tgtagcggag ctcgaaaaga gtggcgcagg gtcgcgcggc 60
cccgcctcct tccccgccca gcgaagctct ctgaccaccc ctctttcta gagttctgcc 120
tcgcttcccg gcgcggtcgc agccctcagc ccacttagga taatggcgac agctgaggta 180
ctgaacattg gtaaaaaatt atatgagggt aaaacaaaag aagtctacga attgttagac 240
agtccaggaa aagtcctcct gcagtccaag gaccagatta cagcaggaaa tgcagctaga 300
aaaaaccacc tggaaggaaa agctgcaatc tcaaataaaa tcaccagttg tatttttcag 360
ttattacagg aagcaggtat taaaactgcc ttcaccagaa aatgtgggga gacagctttc 420
attgcaccgc agtgtgaaat gattccaatt gaatgggttt gcagaagaat agcaactggt 480
tcttttctca aaagaaatcc tggtgtcaag gaaggatata agttttaccc acctaaagtg 540
gagttgtttt tcaaggatga tgccaataat gacccacagt ggtctgagga acagctgatt 600
gctgcaaaat tttgctttgc tggacttctt ataggccaga ctgaagtgga tatcatgagt 660
catgctacac aggctatatt tgaaatactg gagaaatcct ggttgcccca gaattgtaca 720
ctggttgata tgaagattga atttggtgtt gatgtaacca ccaaagaaat tgttcttgct 780
gatgttattg acaatgattc ctggagactc tggccatcag gagatcgaag ccaacagaaa 840
gacaaacagt cttatcggga cctcaaagaa gtaactcctg aagggctcca aatggtaaag 900
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accagatgaa actcctgang atttaaagcc tgagtatgaa aggggatggc cattcctacc 1140
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gtcctgggga acacctgcca tatnccaggt tatccagcct gtcctncccc ttaanaccca 1260
gacctgggga attccaggat gttgtggtcc tccccttcga ctacccagtg gtcctggctg 1320
ttcaacccgt accttttncc ag   1342

<210> 416
<211> 1113
<212> DNA
<213> Homo sapiens

<400> 416
ggcatagccc ggctcggcct gtaaagcagt ctcaagcctg ccgcaggaga agatggcggt 60
cgccgtraga actttgcagg aacagctgga aaaggccaaa gagagtctta agaacgtgga 120

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tgagaacatt cgcaagctca ccgggcggga tccgaatgac gtgaggccca tccaagccag 180
attgctggcc ctttctggtc ctggtggagg tagaggacgt ggtagtttat tactgaggcg 240
tggattctca gatagtggag gaggaccccc agccaaacag agagaccttg aaggggcagt 300
cagtaggctg ggcggggagc gtcggaccag aagagaatca cgccaggaaa gcgacccgga 360
ggatgatgat gttaaaaagc cagcattgca gtcttcagtt gtagctacct ccaaagagcg 420
cacacgtaga gaccttatcc aggatcaaaa tatggatgaa aagggaaagc aaaggaaccg 480
gcgaatattt ggcttgttga tgggtaccct tcaaaaattt aaacaagaat ccactgttgc 540
tactgaaagg caaaagcggc gccaggaaat tgaacaaaaa cttgaagttc aggcagaaga 600
agagagaaag caggttgaaa atgaaaggag agaactgttt gaagagaggc gtgctaaaca 660
gacagaactg cggcttttgg aacagaaagt tgagcttgcg cagctgcaag aagaatggaa 720
tgaacataat gccaaaataa ttaaatatat aagaactaag acaaagcccc atttgtttta 780
tattcctgga agaatgtgtc cagctaccca aaaactaata gaagagtcac agagaaaaat 840
gaacgcttta tttgaaggta gacgcatcga atttgcagaa caaataaata aaatggaggc 900
taggcctaga agacaatcaa tgaaggaaaa agagcatcag gtggtgcgta atgaagaaca 960
gaaggcggaa caagaagagg gtaaggtggc tcagcgagag gaagagttgg aggagacagg 1020
taatcagcac aatgatgtag aaaagaaaga aaagaaagga aaggaagaaa agaaggaaag 1080
aaagaaaaga aaagaaagga aagaaaagaa aac                                1113
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<210> 417
<211> 1174
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c


<400> 417
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agtgtgctct gagggagggt ccgagccagc cgctgttttg ccggaggagc ccctcaggcc 120
gtagtaagca ttaataatgt ctttcatctt tgagtggatc tacaatggct tcagcagtgt 180
gctccagttc ctaggactgt acaagaaatc tggaaaactt gtattcttag gtttggataa 240
tgcaggcaaa accactcttc ttcacatgct caaagatgac agattgggcc aacatgttcc 300
aacactacat ccgacatcag aagagctaac aattgctgga atgaccttta caacttttga 360
tcttggtggg cacgagcaag cacgtcgcgt ttggaaaaat tatctcccag caattaatgg 420
gattgtcttt ctggtggact gtgcagatca ttctcgcctc gtggaatcca agttgagct 480
taatgcttta atgactgatg aaacaatatc caatgtgcca atccttatct tgggtaacaa 540
aattgacaga acagatgcaa tcagtgaaga aaaactccgt gagatatttg ggctttatgg 600
acagaccaca ggaaagggga atgtgaccct gaaggagctg aatgctcgcc ccatggaagt 660
gttcatgtgc agtgtgctca agaggcaagg ttacggcgag ggtttccgct ggctctccca 720
gtatattgac tgatgtttgg acggtgaaaa taaagagtt ttacttctct ggactgatcc 780
tattcacagc ttcctcatga acttttctaa tagaacaagg aaagctctcc aaccatgtct 840
ggcgttgaga agccaagagt ctctgtcaac tctctcattg cccagtggtg acatgtgctc 900
ttctccacac tgttgggagg taatgctgcc ccacgtgctg gtgcaggtca gtatcctggg 960
acttggaagc tggcaggatt tgccgggtaa agctgtatgc catcatgggg cacctgaaaa 1020
```

```
graaaacacg tctcaccact gtggttgatt caaaagaaag tgattctatt ttttaaagaa 1080
agcgttgtta atgtaattgg tatccctcct aacttttttga gttcasaatt tacttggtca 1140
gattttctat tctttttttt ttttaaacta atga                             1174
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<210> 418
<211> 673
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (506)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (586)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (661)
<223> n equals a,t,g, or c

<400> 418
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gtcagtcagt gcgcggccag gtacgggccg acgggcccgc ggggccggcg ccgccatggc 60
gccgtgtttg atttggattt ggagacggag gaaggcagcg agggcgaggg cgagccagag 120
ctcagccccg cggacgcatg tccccttgcc gagttgaggg cagctggcct agagcctgtg 180
ggacactatg aagaggtgtt ccaggtgcga aangtgcaag gcaccaactt gggcaaaata 240
tatgccatga aagtcctaag gaaggccaaa attgtgcgca atgccaagga cacagcacac 300
acacgggctg agcggaacat tctagagtca gtgaagcacc cctttattgt ggaactggcc 360
tatgccttcc agactggtgg caaamtctac ctcatccttg agtgcctcag tggtggcgag 420
ctcttcacgc atctgggagc gagagggcat cttcctggga agatacggcc tgcttctacc 480
tggctgagat cacgctggcc ctgggncatc tccactccca gggcatcatc taccggggac 540
ctcaagcccg aggaacatca tggttcagca gccagggccc acatcnaaac tgaccgactt 600
ttggactttt ggcaaggngt tttattccat gggggggcgcc cttcaattga caactttttg 660
ngggcaacca ttg                                                    673
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<210> 419
<211> 2178
<212> DNA

<211> Homo sapiens

<400> 419

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cgggcacagc gcacactccc cgctcgttgg cccgggtatc ccagcgcgga cccacgcgat 60
acgctgacgc cccgacgccg atccggccga gccaagtaag ggggacggcc cgagacggag 120
aagggagaga gtgggagttt cccagcccgc agaactttcg aagttgagaa ragaaccccт 180
ggaacgtgcg ctcagcactg ggattttctg gactcaacga tgactctgaa taatgtcacc 240
atgcgccagg gcactgtggg catgcagcca cagcagcagc gctggagcat cccagctgat 300
ggcaggcatc tgatggtcca gaaagagccc caccagtaca gccaccgcaa ccgccattct 360
gctacccctg aggaccactg ccgccgaagc tggtcctctg actccacaga ctcagtcatc 420
tcctctgagt cagggaacac ctactaccga gtggtgctca taggggagca gggggtgggc 480
aagtccactc tggccaacat ctttgcaggt gtgcatgaca gcatggacag cgactgcgag 540
gtgctgggag aagatacata tgaacgaacc ctgatggttg atggggaaag tgcaacgatt 600
atactcctgg atatgtggga aaataagggg gaaatgaat ggctccatga ccactgcatg 660
caggtcgggg acgcatacct gattgtctac tcaatcacag accgagcgag cttcgagaag 720
gcatctgagc tgcgaatcca gctccgcagg gcccggcaga cagaggacat tyccataatt 780
ttggttkgca acaaaagtga cttagtgcgg tgccgagaag tgtctgtatc agaagggaga 840
gcctgtgcag tggtgtttga ctgcaagttc atcgagacct ctgcagctgt ccagcacaac 900
gtgaaggagc tgtttgaggg cattgtgcga caggtgcgcc ttcggcggag cagcaaggag 960
aagaatgaac ggcggctggc ctaccagaaa aggaaggaga gcatgcccag gaaagccagg 1020
cgcttctggg gcaagatcgt ggccaaaaac aacaagaata tggccttcaa gctcaagtcc 1080
aaatcctgcc atgacctctc tgtactctag gaacccaggg tcacccagat gtccctttga 1140
tggccgttgt tgaaggccat tgggaccaat aatctatatt agattgaata cttaagttag 1200
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ttaaaaattt ttcccagtgt tctgatatgt gactttgagg ccaatgagtc ataaacaaat 1500
ataagaaagc tgtcaatgag tttcttcaaa ggagggaaaa ctttctacga atctaagatc 1560
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caaaccacct tttatgtttt attattttg aattcatgga gccatcataa aaatattttt 1860
aaaatcagaa ttattgatac cctgtagtgc aaaatgtcaa tttttaatgt ataatcagaa 1920
gtctgaattt ttataaaaca tatagcataa aaacttccag tactttggtt gacccttgta 1980
tgtcacagct ctgctctatt tattattatt ttgcaaaata accatttaa catttgataa 2040
agcatattta tgaacatatt tcttaataag aaaaatatcc atttttattac cattttctat 2100
cttttcaaa atatgcaagt ttttacctat atgtcttata ataaagaaa taaatatttt 2160
gaaaaaaaaa aaaaaaa                                                  2178
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<210> 420
<211> 1884
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<400> 420
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tccccatggg gggtgttcct tccagactcc gccaactgtg aattgccttt gttaaccccg 120
tgcagcaagg ctgtgatgag tcaagcctta aaagctacct tcagtggctt caaaaaggaa 180
cagcggcgcc tgggcattcc aaagaacccc tggctgtgga gtgagcaaca ggtatgccag 240
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ctttgtgggt gacattctct gggaacatct ggagcaaatg atcaaagaaa accaagaaaa 420
gacagaagat caatatgaag aaaattcaca cctcacctcc gttcctcatt ggattaacag 480
caatacatta ggttttggca cagagcaggc gccctatgga atgcagacac agaattaccc 540
caaaggcggc ctcctggaca gcatgtgtcc ggcctccaca cccagcgtac tcagctctga 600
gcaggagttt cagatgttcc ccaagtctcg gctcagctcc gtcagcgtca cctactgctc 660
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caaagaccac gactcccctg agaacggtgc ggacagcttc gagagctcag actccctcct 780
ccagtcctgg aacagccagt cgtccttgct ggatgtgcaa cgggttcctt ccttcgagag 840
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cgccgacccc gatgaggtgg cccgccggtg gggaaagagg aaaaataagc ccaagatgaa 1140
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gctccgagga cccaggaaag gcaggattga aaatgtccag gaaagtggcc aagaagcagt 1440
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gcacagctaa ttctactcac agtgctttta agtgaaaatg gtcgagaaag aggcaccggg 1560
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aaggagcgag catgtcgtgg acacacacag actattttta gattttcttt tgccttttgc 1680
aaccaggaac agcaaatgca aaaactcttt gagagggtag gagggtggga aggaaacaac 1740
catgtcattt agaagttagt ttgkatatat tattataatc ttataattgt tctmagaatc 1800
ccttaacagt tgtatttaac agaaattgta tattgtaatt taaaataatt atataactgt 1860
atttgaaata agaaaaaaaa aaaa 1884

<210> 421
<211> 622
<212> DNA
<213> Homo sapiens

<400> 421
cgcggttaaa tccccgcacc tgagcatcgg ctcacacctg caccccgccc gggcatagca 60
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tcggcttcac cctagtctca ggcacaggag cagagaagac tggcgtgtgc cccgagctcc 180
aggctgacca gaactgcacg caagagtgcg tctcggacag cgaatgcgcc gacaacctca 240
agtgctgcag cgcgggctgt gccaccttct gctctctgcc caatgataag gagggttcct 300
gcccccaggt gaacattaac tttccccagc tcggcctctg tcgggaccag tgccaggtgg 360

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acagccagtg tcctggccag atgaaatgct gccgcaatgg ctgtgggaag gtgtcctgtg 420
tcactcccaa tttctgagct ccagccacca ccaggctgag cagtgaggag agaaagtttc 480
tgcctggccc tgcatctggt tccagcccac ctgccctccc ctttttcggg actctgtatt 540
ccctcttggg ctgaccacag cttctccctt tcccaaccaa taaagtaacc actttcagca 600
aaaaaaaaaa aaacttgggg gg                                        622
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<210> 422
<211> 1285
<212> DNA
<213> Homo sapiens

<400> 422
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tcctggttct ggaatcctca gttcaaggtt atcctacgca gagagccagg taccaatggg 180
tgcgctgcaa tccagacagt aattctgcaa actgccttga agaaaaagga ccaatgttcg 240
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cgagaatcca ggacttgaat cgtatcttcc cactttctga ggactactct ggatcaggct 360
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aggattacca actagtagac gaaagtgatg ctttccatga caaccttagg tctcttgaca 480
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tataaagag gattttccca ccttgacacc aggcaatgta gttagcatat tttatgtacc 600
atggttatat gattaatctt gggacaaaga attttataga aattttaaa catctgaaaa 660
agaagcttaa gtttatcat cctttttttt ctcatgaatt cttaaaggat tatgctttaa 720
tgctgttatc tatcttattg ttcttgaaaa tacctgcatt ttttggtatc atgttcaacc 780
aacatcatta tgaaattaat tagattccca tggccataaa atggctttaa agaatatata 840
tatattttta aagtagcttg agaagcaaat tggcaggtaa tatttcatac ctaaattaag 900
actctgactt ggattgtgaa ttataatgat atgccccttt tcttataaaa acaaaaaaaa 960
aataatgaaa cacagtgaat ttgtagagtg ggggtatttg acatatttta cagggtggag 1020
tgtactatat actattacct ttgaatgtgt ttgcagagct agtggatgtg tttgtctaca 1080
agtatgattg ctgttacata acaccccaaa ttaactccca aattaaaaca cagttgtgct 1140
gtcaatacct catactgctt tacctttttt tcctggatat ctgtgtattt tcaaatgtta 1200
ctatatatta aagcagaaat ataaccaaaa aaaaaaaaa aagggsggcc scyctagagg 1260
atccggcgag gggccctaaa cttaa                                     1285
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<210> 423
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (442)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>

```
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c


<400> 423
ggcggcgcct gctctgtaga gccggcggaa ccgggtagct tggccaggtt gtgaggaacc 60
gcagcgcgcc gcaggaccgg gccgctgagc ctgcagccgc cccgcgccgt gacctgcgac 120
cctagacccc gactcccttt ggctcagccc gcgcgcccca ggcccggccc gggcggcgcg 180
acgggaggat gagcggcggg cggcggaagg aggagccgcc tcagccgcag ctggccaacg 240
gggccctcaa agtctccgtc tggagtaagg tgctgcggag cgacgcggcc tgggaggata 300
aggatgaatt tttagatgtg atctactggt tccgacagat cattgctgtg gtcctgggtg 360
tcattttggg gagttttgcc attacgaggg ttcttgggaa tagcaggatt ctgcctgatc 420
aatgcaagag tccttgtacc tntacttcag caattactac agattgatga aggaagaata 480
tggtnggganc ttggaaactc acaaaggaan ggtttatgac ctctttgc            528


<210> 424
<211> 3118
<212> DNA
<213> Homo sapiens


<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c


<400> 424
ggcggcagct gtggaagctc aggcgctgcg cgtgagaggt cccagatacg tctgcggttc 60
cggctccgcc accctcagct tctcttcccc aggtctggga gccgagtgcg gaaggaggga 120
acggccctag ctttgggaag ccagaggaca cccctggctc ctgccgacac cgccctcctt 180
cccttcccag ccgcgggcct cgctcggtgc taggctactc tgccgggagg cggcggcggc 240
tgccagtctg tggagagtcc tgctgccctc cagccgggct cctccaccgg gccttgcagg 300
ggccgagaga gctcggtgcc cgcccttccg ctcgcctttt tcgtcagctg gctggagcag 360
catcggtccg ggaggtctct aggctgangc ggcggccgyt cctctagttc cacaatgtcc 420
acgggcggag acttcgggaa tccgctgagg aaattcaagc tggtgttcct gggggagcaa 480
agckntggaa agacatcttt gatcaccaga ttcatgtatg acagttttga caacacctat 540
caggcaacaa ttggcattga cttttttatca aaaactatgt acttggagga tcgaacagta 600
cgattgcaat tatgggacac agcaggtcaa gagcggttca ggagcttgat tcctagctac 660
attcgtgact ccactgtggc agttgttgtt tatgatatca caaatgttaa ctcattccag 720
caaactacaa agtggattga tgatgtcaga acagaaagag gaagtgatgt tatcatcatg 780
ctagtaggaa ataaaacaga tcttgctgac aagaggcaag tgtcaattga ggagggagag 840
aggaaagcca aagagctgaa tgttatgttt attgaaacta gtgcaaaagc tggatacaat 900
```

```
gtaaagcagc tctttcgacg tgtagcagca gctttgccgg gaatggaaag cacacaggac 960
agaagcagag aagatatgat tgacataaaa ctggaaaagc ctcaggagca accagtcagt 1020
gaaggaggct gttcctgcta atctcccatg tcatcttcaa ccttcttcag aagctcactg 1080
ctttggcccc cttactcttt cattgactgc agtgtgaata ttggcttgaa ccttttccct 1140
tcagtaataa cgtattgcaa ttcatcattg ctgcctgtct cgtggagatg atctattagc 1200
ttcacaagca caacaaaagt cagtgtcttc attatttata ttttacaaaa agccaaaata 1260
tttcagcata ttccagtgat aactttaaaa attagataca ttttcttaac attttttttct 1320
tttttaatgt tatgataatg tacttcaaaa tgatggaaat ctcaacagta tgagtatggc 1380
ttggttaacg agcggtatgt tcacagccta ctttatctct ccttgctttt ctcacctctc 1440
acttaccccc attccctatt accctattct tacctagcct cccccgactt cctcaaaaca 1500
aacaagagat ggcaaagcag cagttctacc aagcccattg gaattatcct ttaattttac 1560
agataccact tgctgtaggc tacggaccaa gatgtccaaa attattcttg agcactgata 1620
aaaattacgg tcttctttga ggtcaaaatt cagccatcat ggtaggcagt gcttgaatga 1680
gaaaaggctc ctggtgcatc ttcaaaatga gtcctaaaga acatactgag tacttagaag 1740
tagaagaaca taagatgtat ttctgactaa aacaaatggc tctttcacat gtgctttatt 1800
agactctggg agagaaaatt aaccaagtgc ttcagaacag gttttttagta tttaattctt 1860
cacggtaaga aaatgaagtt ctaatgaact gtttctccca aggtttttaaa attgtcaaga 1920
gttattctgt ttgtttaaaa aataagaaac ctctttaagc aatagatttt gcttgggttt 1980
tctttttttaa aaacataata ctgtgcaggc aaggcactgt aaaagtttta attccttcca 2040
gaagaaccag tggaagaatt taaatttggc gctacgatca aaactactga attagtagaa 2100
ataatgatgt ctaaagctta ccaacaaaag aaccctcagc agaataacaa aaactttgct 2160
caggacattt gaggtcaaat tgaagacgga aaccggaaac cgtttttcttg taagcccccta 2220
gaggcagatc aggtaaagca tacatagtag agggaaagga gagaatggaa ataaaactca 2280
atattatgca gatttatgcc ttattttttta gcatttttta aggttgggtc tttcaggctg 2340
gttttggttt gtattagatc tgtatagttt aattaactgg tgatttagtt ttatatttaa 2400
gctacaatta atcttttttc tttggtgata tttatttctt tgccttttttt ttttttaaca 2460
actttcaatc ttcagatgtt tcgttgaatc tatttagagc ttcaccatgg caatatgtat 2520
ttcccttaaa acactgcaaa caaatatact aggagtgtgc cctttttaatc tttactagtt 2580
attgtgagat tgctgtgtaa gctaataaac acatttgtaa atacattgtt tgcaggacga 2640
aaacttctga gttacagctc aggaaaagcc tgctgaattt atgttgtaag cattacttaa 2700
cacagtataa agatgaaaag acaacaaaaa tatcttcata cttcctcatc ccctcattgg 2760
aacaaaacct taaactggga gaaccttagt cccctctctt tcctcttcct cctccacttc 2820
ccacttattg tcaccttgta atattcagag agcacttgga ttatggatct gaatagagaa 2880
atgcttacag ataatcatta gcccacatac cagtaactta aagatgggat ggagttgtaa 2940
agtgcttttta taatacaata taattgttaa aggcaagggt tgactctttg ttttatttttg 3000
acatggcatg tcctgaaata aatattgatt caatatggca aaaaaaaaaa aaaaaaaaaa 3060
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagggcg gccgctcgcg atcttagc 3118
```

```
<210> 425
<211> 1410
<212> DNA
<213> Homo sapiens
```

```
<400> 425
ccacaagggg ctctaaaaag caaacattca agagtatgta gttttttagac attaagttaa 60
ttattttaaa cagtgacagc aaaacacaag tgattaaata tagtttatttt gttccaatga 120
ctaaattttta cctcatttat taatctggtc attaaggaat atatttaata atattatgta 180
attattcttt ttatgcatga tacacctaga aaaatgcctt ttgtttctat tgatggctttt 240
gttgtttgga gctacttttg attacttatt gcagtttccc aatttagtct ttactttatc 300
taactcacaa agtaaaatta actgatcaca tggcaactac tgtatttaaa tagttctgga 360
aaaatgaaag tgcttttttgc tgcttggtaa atgggtaatg cccttgattc cttgactgta 420
```

```
ggacatagct gatctaaagt actctgtcag ttttaccttc acccatgact gtcattagtt 480
gtcaaagttg aaaagtactt tagctgtgag aaatccttgt atgttttat tataagaggt 540
ataatcatcc tcaaagcctg tttttattac atgatgtgga ctgattattt tttctatcac 600
agtgttaaca gatggatttt attgtaaata caaagaaaac atattgatta ttgtagtatt 660
cttatgtcac ctggccttt gcgtgagatt atttattatt tctagcaagg cttttcttcct 720
ttcttattgc ccagagactg actgatacat cttttgttat ttttacacat aaattaaaca 780
tagcctttt ggacaaattc actaaatatt aatgtataaa atgtaattga gtaaattttt 840
atcagaattt taaaaataaa agagcttaga ctcagtagaa ctcagtagaa gcttcactat 900
ttactccagc gtgtgtaaat tgtacttact ctattctcag agtatattta ctgtccttac 960
cattgattct ttcccttgc taattttttt ttttgttaat ggtagctgcg actttaggtg 1020
gggtatattt tcttctccta agagaataga cagttttcc agattcatca tcattgactg 1080
tcaagaaagg acccttcagc aaggctgtac cctcaatgca gttgatggcc tgtcttcacg 1140
gatttacaga cttggcctga tgcccatgta aattcaagct ttggcttgtg gtaacaacca 1200
caagaagaca agcatctgtg gtgcggaggc aagcaggcta actaggagtt gacaagctaa 1260
gaaagtgaaa ctgttcttc ttagttaact gtctttctct ggagctctgt tattttgagt 1320
ataatatttc cacgacactt agtaaatgca agctaaaatg taataataat aaattgtatt 1380
ggagaaacct aaaaaaaaat ttttttaaaa                                   1410
```

<210> 426
<211> 1422
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<400> 426
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ctcaccttgg ccttggaatt aatgacttgg agaagacctg aatggggagg ggagagcagt 60
agaagcatga gcctttctga ctgtctacat gttcttgccc agttttaact tctagtcatg 120
gcgaatgatc gcaggagagc acagactgga ccctgctacg atctctcttg gagtggatca 180
gactgatgat caccaacaac caactcattc ccggataagg aagaagagag tgtcacctac 240
ttcagtgtgg tttcaaccct acttctgcat cttaaagaca ctgtatggtt tcagcagtag 300
tgcccctgtt cattagtccc cctgatgntt tcattcctca tctcatcttt ttcttagcag 360
cattcaatga atccttcatt ctagaaacac tctatatctt tggttttcat grgaccattc 420
tcaccttgtt ttgtcctgtg acttttttga aaaaaacaaa aacaaaaaac cctttttttnc 480
tttttaaatt ctggtaaaaa acacaatgaa aatttgctat cttaaccatg ttgaaatgtg 540
cagttagtaa agtacattca cattgtggtg caagccatca ctaccatcca tcactagaac 600
ccttttcatc ttgcagatct gaaactctac ccattaaacr acttcccatc ttcccatccc 660
cacagctcct agcaaccaac attctacttt ctctatcagt ttgactactc taggtacctc 720
atatgagtag aatcatacag cattatcct tctctgcctg gcttatttca cttgtataat 780
gtccycaagg ttcattcatg ttgtagcatg catcagaact tcctcccctt ttaaaggctg 840
gataatattt catggtatgt ttagatcaca ttctgtttat ccattcatcc atcagtgaac 900
acttgtgctc cttccaactt tgggctgttg ggtgtcctgc cactgttgct cctagtgctc 960
aatctcgttt attccctcct aatcaagtgt acaacgttgg acactgtgca ggatgatgcc 1020
```

```
acttcatctt ggatgctaat ctgccatgtt gacttctgat taaccccagg cccaggaatg 1080
cctcaagatt tctactttac ttactgttgc ttgtgtaagc caagacaacc ttgatgttat 1140
cataaacatg tacttaccta agtcctgtcc tttggcaaat tatgggctat gagacacagc 1200
attcttgcct ttccctgagg ggtcaatttc agcgatccta cacattcctt ctgaagcact 1260
tatgctcttt ctatatggta tgtaagctct cggtctgggg agtaacagtg cagagatcta 1320
cctgtcttgt tgccacatgt ttctaaactt tccaataaat caccttctac tgacaaaaaa 1380
aaaaaaaaaa aaactcgagg tcgacggtat cgataagctt ga                      1422
```

<210> 427
<211> 830
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (686)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (772)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (809)
<223> n equals a,t,g, or c

<400> 427
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gggatcgacc cacgcgtccg cctagcgccg ctgggcctgc aggtctctgt cgagcagcgg 60
acgccggtct ctgttccgca gatggggttt gttaaagttg ttaagaataa ggcctacttt 120
aagagatacc aagtgaaatt tagaagacga cgagagggta aaactgatta ttatgctcgg 180
aaacgcttgg tgatacaaga taaaaataaa tacaacacac ccaaatacag gatgatagtt 240
cgtgtgacaa acagagatat catttgtcag attgcttatg cccgtataga gggggatatg 300
atagtctgcg cagcgtatgc acacgaactg ccaaaatatg gtgtgaaggt tggcctgaca 360
aattatgctg cagcatattg tactggcctg ctgctggccc gcaggcttct caataggttt 420
ggcatggaca agatctatga aggccaagtg gaggtgactg gtgatgaata caatgtggaa 480
agcattgatg gtcagccagg tgccttcacc tgctatttgg atgcaggcct tgccagaact 540
accactggca ataaagtttt tggtgccctg aarggagctg tggatggagg cttgkctatc 600
cctyacagta ccaaacgatt ccctggktat gawtctgaaa gcaaggaatt taatgcagaa 660
gtacatcgga agcacatyat gggccnagaa tggttgcaga ttacatgcgc tacttaatgg 720
gaagaagatg aagatgctta ccaggaacag gttctyttca atwccttaaa gnacagcgta 780
acttccagac catgatggga ggagatgtnt taagaaaagc ttaatgctgg              830
```

<210> 428
<211> 1622
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

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<222> (76)
<223> n equals a,t,g, or c

<400> 428
ggcagagctt ccagggctgs ccatayttgc catggccgac tcagtagtca ctaacttcaa 60
caaaaataaa actgtngcaa tagtattcta ttaaagcttc tttaactgct taaacttgcg 120
gttttgacat ggtacctatc ctttcttccc ttttcaaaag attcgctata gagtctttct 180
ctacatgcca gtctccaaaa tggcgcggac ggcatcagaa ggtcagaggt gagtcacgtg 240
ggtcccccccg gttccggcgc ggttgaggcc ttcggtggtg aacgagtctc cagcaccatg 300
tctggtttgt ctggcccacc agcccggcgc ggccctttttc cgttagcgtt gctgcttttg 360
ttcctgctcg gccccagatt ggtccttgcc atctccttcc atctgcccat taactctcgc 420
aagtgcctcc gtgaggagat tcacaaggac ctgctagtga ctggcgcgta cgagatctcc 480
gaccagtctg ggggcgctgg cggcctgcgc agcacctcaa gatcacagat tctgctggcc 540
atattctcta ctccaaagag gatgcaacca aggggaaatt tgcctttacc actgaagatt 600
atgacatgtt tgaagtgtgt tttgagagca agggaacagg gcggatacct gaccaactcg 660
tgatcctaga catgaagcat ggagtggagg cgaaaaatta cgaagagatt gcaaaagttg 720
agaagctcaa accattagag gtagagctgc gacgcctaga agacctttca gaatctattg 780
ttaatgattt tgcctacatg aagaagagag aagaggagat gcgtgatacc aacgagtcaa 840
caaacactcg ggtcctatac ttcagcatct tttcaatgkt ctgkctcatt ggactagcta 900
cctggcaggt cttctacctg cgacgcttct tcaaggccaa gaaattgatt gagtaatgaa 960
tgaggcatat tctcctccca ccttgtacct cagccagcag aacatcgctg gcacgtgcct 1020
gccctaaggc atcctaccaa cagcaccatc aaggcacgtt ggagctttct tgccagaact 1080
gatctctttt ggtgtgggag gacatggggt accacctaca cccaacaagt caatgaggga 1140
cttctttta atttggtagg attttgactg gttttgcaac aataggtcta ttattagagg 1200
cacctatgac aaaaaatagg ggttacctag ataatgccaa agtcagcatt tgtcctgggt 1260
tcccttgtgt gatctgtttg gactatgttt tcttttcttc tcccacttgc tcagcagctt 1320
gggcttccat tctagttctt ttaccaagat ttttgtgtga ccatgttgac ttcatttgga 1380
ttgccctctt tcaatttcct tgtgaaaaca cccttaactt tctctttacc cttagctgaa 1440
atgtttacat agcttctggt gatatctttt catgatttta aatctcttaa aatggtgatg 1500
gatgtgacac ctcataaaag tgagcttgg actgtagata actcttaaag aaaatgtcat 1560
tttagacaat taaaatattt gtgctcaact gcttggaaaa aaaaaaaaaa aaaaaaaaaa 1620
aa                                                                1622

<210> 429
<211> 548
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (385)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (453)
```

```
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (512)
<223> n equals a,t,g, or c

<400> 429
ctatgctact tagatatttg tggcaaagca gaaagctttt tgactgtnaa ggcagaggtc 60
agcactgggg gaaacttgct ggtggtctct cccacaacct tgcccagagt cctttccact 120
aaggaggtga agagaacaga gaaagagatt tccatttctg ctgccagagc tggtatttgc 180
ctgcctgatt ctctgtgttt cctgtttcac cgccaccctt tcaggagaga actacaccag 240
ttcatcatga gggtcaggga agcaaaagct ctcagatgtg tccagggcgt tacttaagaa 300
atgagtatgc agattctgga aggggtgtgg aaaaggtgat cctttacccc cacccaggaa 360
aacctgcatt gtgctagcat ggaanaatca tgggctttgg aattaaaccc atttggtgga 420
attaaaccca tttggtttca aatcccagtt atnacatctg ttaactttgc aaactcacaa 480
aaattatttg aaattatctg agttttcatt tnctcacctt ccagaatggg gataatgcct 540
cctgcatc                                                        548

<210> 430
<211> 569
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (381)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (553)
<223> n equals a,t,g, or c

<400> 430
cccccgccct cggccgcttc tgtgggagca agaagcccga gcccgtcctg gccacaggca 60
gccgcatgtt cctgcgcttc tactcagata actcggtcca gcgaaagggc ttccaggcct 120
cccacgccac agagtgcggg ggccaggtac gggcagacgt gaagaccaag gacctttact 180
cccacgccca gtttggcgac aacaactacc ctgggggtgt ggactgtgag tgggtcattg 240
tggctgagga aggctacggc gtggagctcg tgttccagac ctttgaggtg gaggaggaga 300
ccgactgcgg ctatgactac atggagctct tcgacggcta cgacagcaca gcccccaggc 360
tggggcgcta ctgtggctca nggcctcctg aggaggtgta ctcggcggga gattctgctg 420
tragtcactc gatacaccat accaaaaaag gtttccacct gcgatacacc agcaccaagt 480
tccaggacac acttcacagc aggaaatgac cactggcttr acaagggccg ggactggamc 540
ctgktgccct tgncgcctaa actggataa                                  569

<210> 431
<211> 549
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (519)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (541)
<223> n equals a,t,g, or c

<400> 431
gccggaactt ttgtcgatag gaacgggttt gcacagttga gtgttgtcgg ccggcgtgaa 60
ggagactagg gggccatcct cttcctttcg ccgtcgccgc cgcggagcgg agtcgagccg 120
agctgatttg atcgaggagc gcggttaccg gacgggctgg gtctatggtc gctccgcggg 180
ccgctccgcc ggctggtgct tttttatcag ggcaagctgt gttccatggc agggaacttt 240
tggcagagct cccactattt gcaatggatt ttggataaac aagatctgtt gaaggagcgc 300
caaaaggatt taaagtttct ctcagaggaa gaatattgga agttacaaat attttttaca 360
aatgttatcc aagcattagg tgaacatctt aaattaagac aacaagttat tgccactgct 420
acggtatatt tcaagagatt ctatgccagg tattctctga aaagtataga tcctgtatta 480
atggctccta catgtgtgtt tttggcatcc aaagtagang gaaaaaaat ttttttttt 540
nggggggg                                                      549

<210> 432
<211> 1221
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1160)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1183)
<223> n equals a,t,g, or c

<400> 432
cgcacttccc ctctgctggg cgcgcggtgg acggtctgaa agggagtgtt cgggtttcgc 60
tggggcctcg cggctccaga gcccagcatg gcttcctcgc gagcctcttc cacggcaacc 120
aaaactaaag cacccgacga cttagttgct ccggtcgtga agaaaccaca catctattat 180
ggaagtttgg aagagaagga gagggagcgt ctggccaaag gagagtctgg gattttgggg 240
aaagacggac ttaaagcagg gatcgaagct ggaaatatta atataacctc tggagaagtg 300
tttgaaattg aagagcatat cagcgagcga caggcagaag tattggctga gtttgagaga 360
aggaagcgag cccggcagat caatgtttcc acagatgact cagaggtcaa agcttgcctt 420
agagccttgg gggaacccat cacacttttt ggagagggtc ctgctgaaag aagagaaagg 480
ttaagaaata tcctctcagt tgtcggtact gatgccttga aaaagaccaa aaaggatgat 540
gagaagtcta aaaagtccaa agaagagtat cagcaaacct ggtatcatga aggaccaaat 600
agcttgaagg tggcaagact atggattgct aattattcgt tgcccagggc aatgaaacgc 660
ttggaagagg cccgactcca taaggagatt cctgagacaa caaggacctc ccagatgcaa 720
gagctgcaca agtctctccg gtctttgaat aattttttgca gtcagattgg ggatgatcgg 780
```

```
cctatctcct actgtcactt tagtcccaat tccaagatgc tggccacagc ttgttggagt 840
gggctttgca agctctggtc tgttcctgat tgcaacctcc ttcacactct tcgagggcat 900
aacacaaatg taggagcaat tgtattccat cccaaatcca ctgtctcctt ggacccaaaa 960
gatgtcaacc tggcctcttg tgcggctgat ggctctgtga agctttggag tctcgacagg 1020
tgaatatcac tgttctgtgg cccatactgc catcactaaa gtagatgttt gattggttgg 1080
tccccaggac ctcagtaaaa atctggcatt agggccatgc gcatgggctc acaccttaag 1140
ggctgaaggc aggagaattn gcttaaaccc ggggaaatgg gangttgtgg tgagccgaga 1200
ttgcacactg cactcccagc t                                           1221
```

<210> 433
<211> 1115
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<400> 433
```
ggcacacatc accaagccca gccaaatttt gttttttttt tgtanagatg gggtttcatc 60
acgttkccca ggctgatctc gaacctctgg gctcaagcaa ttcactcgcc tcggcctccc 120
aaaatgctgg gattacaggc ctgagccact gcgccagcc aggatttgaa ttattttaac 180
tcatccatgg gctgccctag aatgtcacaa atgagggttg tttaatgcct ttcttatagc 240
tgctactgga acactattat gacctaattt atgagccatc cttactcatc tacaagtgct 300
gaagcaatgt tacatacttt tttgctaaac tcagattttt tagcctaatt tcttgtcctc 360
ctatccacct gcatccacac atggcctgca tggggctgcc ttccctgcag tgttctgcag 420
ccatgcttca gggtatagct gttggtggac agcctcaggt cttgggggca ctatagccac 480
taaacgaggt gtgaaaggct caagaggatg accagcaatt aattatcccc agaaagtgaa 540
ggaaaagaga cctttaggga tgttgctggt caagtcttga tttgaccgga gtcaaatcaa 600
tcttcaagca atcttggaat cctcaactgc agtaagcatt tcaaaatgca aacaaactgc 660
ttaacaactg acaagacacc agcccatacg ctgctcttcc aacagtgggt tctagctttg 720
aacaaaagtg ctaaacattt ccttgaatat attcttcctc tttttgtcct catcactcaa 780
tactggtgct cttgtcacag gtagaacagc ttgtttcttt tccatctatt caagtgtgtt 840
tctaattcta aaatgctgat cttctctgga gtctatggta ggcaattatg gtcactggaa 900
tagtttgtct tgttttmaaa tattattggt gcatgtacaa cagcatccaa catatctgtc 960
ttgttcctag atatatagct ctgattttag gccttttgtg cataccatta caatatggtg 1020
gggtaagaca ttctacagta gcctgtgctg aactgatctc ttaaataaac ttgcttctgg 1080
ttaactaaaa aaaaaaaaaa agggcggycg ctcta                            1115
```

<210> 434
<211> 1604
<212> DNA
<213> Homo sapiens

<400> 434
```
ctgctgctac tctgtttctt tcctcacttt gctttccaag gtggtatgtg atccccagct 60
caggcctgtg cagacaggaa attctcccct gcagcaagta ggggaagtgg gttgtgggat 120
gtgacctcct tccagatatc aggcagtgag tgtaaacctg ccacctccag ccctgatcca 180
ttctcaccta gcggctacag gaagctgtgt ctgttcgatt tggtgggagg agatgtgcag 240
ggagctgtat cttgtcctcc gcttgtgaaa aactcaagga tgtggagaag agtagaccgt 300
```

```
ggaaccctgc tcttctgcag ccaagctgag gggcaggatg cgtgtgggac agtggtagag 360
aagcagggga tagactcata ggctgcaaca aaggtgactc tgtccctgga cactgcctcc 420
gtactttctc cttgcttcac tggccacagc atctccctcc agccctcgct atgtgcctct 480
gccatcttca cccatcatgg agcagaggtg aggagaggca gcctgggaat atggagacca 540
gtgaaggacc aggcctggag agcacaggggt cctacctggg catccagcag aggagcccct 600
aaaggccagg agcaccccaa gaggagggag ggcagccagc ctccattgac ggcgagcctc 660
cagccctctc ctactttgat caccatttct ctccaggctt tctgcctccg agatgtggca 720
ccatagtgcg gtgccctgtg gcttcaccgc cctacttcca cctccgccca gcctgtaatg 780
tttatataag cagcctcaag gaccaagaac catctgcgaa aggacacaca caggaaattc 840
ataaaagaaa tctgaatgga taaaaccatg aaaaaaagta tgcttcatta gtaattaaag 900
aaaggcaaat agagctggaa gcattttttcc cttagcaaac cataacagaa aaaaataaga 960
cccaatattg gcaaagagac tactgaaaaa acattcccat acattgcgtg tgggagtata 1020
catcggtgca ggcttcctgg atgacagttg ggtgatatgt gtcatgtggc ctaaaagcct 1080
ccatgtcatt tgacctacga attctatctt tgggaattta tcctaagaaa atacttaagg 1140
atttagttag tgataagatg ttcatcccag cattgcaatg gagaaaaatg ggaagcaatg 1200
gtttggttgg gaatttattc cttttctgct gtaacgaaag tttgcaatag gggattgctt 1260
aagtaaatta ttgtatctcc atccagatgg tggagtaccg cgcagacatt aaaagtcatg 1320
taaaagaaca tctgactgaa agaaaaatgc tccttgaata ttaaaaggtt gtaaaaatag 1380
tgcatgttat gtgatttcaa ttttgttttt taaaatatgg gtgtatgctt gtatacgtag 1440
agcagataaa aaagacggaa ggcatactaa aaaatgttga gtggttatct ttgtatggtg 1500
gaacaaagtc actgtaattt tcatctttgg tttttctgta atttccaaat tttccacatt 1560
ttgtatttca tataataaat ataatttaag aaaaaaaaaa aaaa         1604
```

<210> 435
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<400> 435
```
gaggcggtga acgagcagct ttctagcgag cgcagcaacc tggcccaggt gatccgccag 60
gagttcgagg accggctggc agcctctgag gaggagacgc ggcaggccaa ggccgagctg 120
gccacgctgc aggcccgcca gcagctggag ctggaggagg tgcaccggag ggtgaagaca 180
gccctcgcga ggaaggagga ggccgtgagc agcctccgga cacaacatga ggtgagtccc 240
tgtggccagc cctgctggac ctcggggctg ggancangcc tgaccctgtg ggtgtgctgc 300
a                                                        301
```

<210> 436
<211> 318
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<400> 436
aattcggcac gaggaaaccc ttagtcctgg ccatttcaaa agcatcacac agaagaagac 60
cttgatattt acatttaagt cacatatgca gctactgaca cttactagtg ctgttatagt 120
cctggctatt attccatgag gtcgtcacat tttaaccttt tgcataagcc tccaacggcc 180
tgatggaatg atgaagcctc agaacagttt ctacacaatg gctaagggat gtacccattt 240
tnaattttcc tcttttctgt gatcacagag ggtgaatacg ctttggccgg atacacagaa 300
gtgaaaactg tcacccat                                                  318
```

```
<210> 437
<211> 1882
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1793)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1795)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1818)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1826)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1844)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1855)
<223> n equals a,t,g, or c
```

```
<400> 437
tagcccgtcg ggagcgccag gccggccagg cctgcgccgy cgccgccgcc gccgtcgccg 60
ccgcgccgac catgtcgmag ccaaggagaa cccgtgcagg aaattccagg ccaacatctt 120
```

```
caacaagagc aagtgtcaga actgcttcaa gccccgcgag tcgcatctgc tcaacgacga 180
ggacctgacg caggcaaaac ccatttatgg cggttggctg ctcctggctc cagatgggac 240
cgactttgac aacccagtgc accggtctcg gaaatggcag cgacggttct tcatccttta 300
cgagcacggs ctcttgcgct acgccctgga tgagatgccc acgacccttc ctcagggcac 360
catcaacatg aaccagtgca cagatgtggt ggatggggag ggccgcacgg gccagaagtt 420
ctccctgtgt attctgacgc ctgagaagga gcatttcatc cgggcggaga ccaaggagat 480
cgtcaartggg tggctggaga tgctcatggt ctatccccgg accaacaagc agaatcagaa 540
gaagaaacgg aaagtggagc cccccacacc acaggagcct gggcctgcca agtggctgtt 600
accagcagca gcagcagcag cagcagcagc agcagcatcc ccagtgctga gaaagtcccc 660
accaccaagt ccacactctg gcaggaagaa atgaggacca aggaccagcc agatggcagc 720
agctgagtcc agctcagagt cccagccaga gccagcctcc tgctgccagc ytctgcggga 780
actgggctag agagcaaaga agaggagagc gccatgagta gcgaccgcat ggactgtggc 840
cgcaaagtcc gggtggagag cggctacttc tctctggaga agaccaaaca ggacttgaag 900
gctgaagaac agcagctgcc cccgccgctc tcccctccca gccccagcac ccccaaccac 960
aggaggtccc aggtgattga aaagtttgag gccttggaca ttgagaaggc agagcacatg 1020
gagaccaatg cagtggggcc ctcaccatcc agcgacacac gccagggccg cagcgagaag 1080
agggcgttcc ctaggaagcg ggacttcacc aatgaagccc ccccagctcc tctcccagac 1140
gcctcggctt cccccctgtc tccacaccga agagccaagt cactggacag gaggtccacg 1200
gagccctccg tgacgcccga cctgctgaat ttcaagaaag ctggctgac taagcagtat 1260
gaggacggcc agtggaagaa acactggttt gtcctcgccg atcaaagcct gagatactac 1320
agggattcag tggctgagga ggcagccgac ttggatggag aaattgactt gtccgcatgt 1380
tacgatgtca cagagtatcc agttcagaga aactatggct tccagataca tacaaaggag 1440
ggcgagttta ccctgtcggc catgacatct gggattcggc ggaactggat ccagaccatc 1500
atgaagcacg tgcacccgac cactgccccg gatgtgacca gctcgttgcc agaggaaaaa 1560
aacaagagca gctgctcttt ttgagacctg cccgaggcct actgagaagc aagaggcaga 1620
gctgggggag ccggaccctg agcagaagag gagccgcgca cgggagcgga ggcagagggc 1680
cgctccaaga cctttgactg ggctgagttc cgtcccatcc agcaggccct ggctcaggag 1740
cgggtgggcg gcgtgggggcc tgctgacacc cacgagcccc tgcgccctga ggngnasctg 1800
gggaagctgg agcgggancg tgcacngaag cgggaggagc gccncaagcg cttcnggatg 1860
ctcgacgcca cagaacgggc ca                                        1882
```

```
<210> 438
<211> 2056
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2046)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2053)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2054)
<223> n equals a,t,g, or c
```

```
<400> 438
gattcagctt aacccgtgat cttcttaagt taaaggtact tttgttttat aaaagctcta 60
gataaaactt tcttttctga tcatgaatca agtatctgtg gtttcatgcc cctctctata 120
cctttcaaag aactcctgaa gcaacttaac tcatcatttc agcctctgag tagaggtaaa 180
acctatgtgt acttctgttt atgatccata ttgatattta tgacatgaac acagaatagt 240
accttacatt tgctaaacag acagttaata tcaaatcctt tcaatattct gggaacccag 300
ggaagttttt aaaaatgtca ttactttcaa aggaacagaa gtagttaacc aaactaacaa 360
gcaaaacctg aggttacct agtgacacca aattatcggt attttaactg aatttaccca 420
ttgactaaga atgaaccaga tttggtggtg gttttgtttc tatgcaaact ggacacaaat 480
tacaacagta aattttttta taagtgcttc tcccttctcc atgatgtgac ttccggagat 540
aaaggattca aaagataaag acaaagtacg ctcagagttg ttaaccagaa agtcctggct 600
gtggttgcag aaacactgtt ggaagaaaag agatgactaa gtcaagtgtc tgccttatca 660
aaagagcaaa aatgcctctg ttttgtgtt tgggagaaaa atatcttgga cgcactgttt 720
tccttgataa aagtcatctt ctctactgtg tgaaatgaat acttggaatt ctaattgttt 780
tgtgtgccag gggcagtaat gtccctgcct cttctcccaa tcaaggttga ggagtggggc 840
tggggagagg acttaactga cttaagaagt agggaaaaca aaaacctctc tcctcagcct 900
tccacctcca agagaggagg aaaaacagtt gtctgctgtc tgtaattcag tttgcgtgta 960
ttttatgctc atgcaccaac ccatacagag taaatctttt atcaactata tactggtgtt 1020
taatagagaa tgattgtctt ccgagttttt tggttccttt tttaactgtg ttaaagtact 1080
tgaaatgtat tgactgctga ctatatttta aaaacaaat gaaataattt gagttgtatt 1140
acagaggttg acattgttca gggatgggac aaagccttct tcaatccttt tcatactact 1200
taatgatttt ggtgcaggaa cctgagattt tctgatttat atttcatgat atttcacatt 1260
tgctcttcac agcatgagca tgaagcccag tggcaccaaa tggctgggta caatcaagtg 1320
atattttgta gcacctcact atctgaaagg ccatgagttt tcagatgatt tcattgagct 1380
tcattgcagc ctgaaatttt aaaaaagttg tgtaatacgc caaccagtca agttgtgttt 1440
tggccagaga tttagatatg tccaatttcc tggctcattt cattgtgctc tatgggtacg 1500
tataaaaagc aagaattctg tttcctaggc aaacattgca actcagggct aaagtcatcc 1560
agtgaaactt ttagagccag aagtaacttt gtcccagtcc tacaatgtga aaagagtgaa 1620
tagttgcctc tttttagcca ttttcatggc tggtacatat tcgtacgcat tactttcag 1680
aatcaatacg cactttcaga tattcttatt tttattctct taagtctta ttaactttgg 1740
agagagaaat gatgcatctt tttattttaa atgaagtaga tcaacatggt ggaacaaaat 1800
gataaagaac agaaacatt tcaatatatt actaataact ttttccaata taaatcctaa 1860
aattcctata acatagtatt ttacagtttt atgaagcttt ctattgtgac ttttatggaa 1920
ttaagagatg aagaagatga gatattttag catttatatt tttcaaaatt atatgtatac 1980
ttaaaaataa agtaacttta tgcatttaaa aaaaaaaaa agggsggccc gttttagagg 2040
atccangttt acnncc                                               2056
```

```
<210> 439
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (688)
<223> n equals a,t,g, or c

<400> 439
ggcggcgcgg rcaggtcgga gctcggagct gctgcttctg gttctcttgt ggccgccgtc 60
gctgtccggc tgccttgggc tgccgaacag acaaggcgtg ggccacagca cctcagaagc 120
cgacgcagct cgacgcaggg gccggcagga gggtgggcga tcgcgtgtcg gagggcgccg 180
```

```
cgcgggcagg cgggcgggcg ccagaggggg aaagaggcgg gggcggcggg tcagccgctg 240
gccgggccgg ccggggaatg tcgatgcccg acgcgatgcc gctgcccggg gtcggggagg 300
agctgaagca ggccaaggag atcgaggacg ccgagaagta ctccttcatg gccaccgtca 360
ccaaggcgcc caagaagcaa atccagtttg ctgatgacat gcaggagttc accaaattcc 420
ccaccaaaac tggccgaaga tctttgtctc gctcgatctc acagtcctcc actgacagct 480
acagttcagc tgcatcctac acagatagct ctgatgatga ggtttctccc cgagagaagc 540
agcaaaccaa ctccaagggc agcagcaatt tctgtgtgaa gaacatcaag caggcagaat 600
ttggacgccg ggagattgag attgcagagc aagacatgtc tgctctgatt tcactcagga 660
aacgtgctca gggggaraag cccttggntg gtgstaaaat akkgggyttg acacattaca 720
g                                                                  721
```

```
<210> 440
<211> 1041
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (1025)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1030)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (1039)
<223> n equals a,t,g, or c
```

```
<400> 440
ctcgtgcgcg gacattgtca gctgcgtttc cgcggtcgcg gttgaggagc tcaagcttgg 60
gaaaatggtg tgcattcctt gtatcgtcat tccagttctg ctctggatct acaaaaaatt 120
cctggagcca tatatatacc ctctggtttc cccccttcgtt agtcgtatat ggcctaagaa 180
agcaatacaa gaatccaatg atacaaacaa aggcaaagta aactttaagg gtgcagacat 240
gaatggatta ccaacaaaag gaccaacaga aatctgtgat aaaaagaaag actaaagaaa 300
ttttcctaaa ggaccccatc atttaaaaaa tggacctgat aatatgaagc atcttccttg 360
taattgtctc tgaccttttt atctgagacc ggaattcagg ataggagtct agatatttac 420
ctgatactaa tcaggaaata tatgatatcc gtatttaaaa tgtagttagt tatatttaat 480
gacctcattc ctaagttcct ttttcgttaa tgtagctttc atttctgtta ttgctgtttg 540
aataatatga ttaaatagaa ggtttgtgcc agtagacatt atgttactaa atcagcactt 600
taaaatcttt ggttctctaa ttcatatgaa tttgctgttt gctctaattt ctttgggctc 660
ttctaatttg agtggagtac aattttgttg tgaaacagtc cagtgaaact gtgcagggaa 720
atgaaggtag aattttggga ggtaataatg atgtgaaaca taaagattta ataattactg 780
tccaacacag tggagcagct tgtccacaaa tatagtaatt actatttatt gctctaagga 840
agattaaaaa aagataggga aaaggggggaa acttctttga aaaatgaaac atctgttaca 900
ttaatgtcta attataaaat tttaatcctt actgcatttc ttctgttcct acaaatgtat 960
taaacattca gtttaactgg taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaanccccn ggggggggnc c                                             1041
```

<210> 441
<211> 1995
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1957)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1992)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1995)
<223> n equals a,t,g, or c

<400> 441
```
gcccacgcgt ccgcccacgc gtccgcagca tcaccatgtc tgttcgatac agctcaagca 60
agcactactc ttcctcccgc agtggaggag gaggaggagg aggaggatgt ggaggaggag 120
gaggagtgtc atccctaaga atttctagca gcaaaggctc ccttggtgga ggatttagct 180
cagggggtt cagtggtggc tcttttagcc gtgggagctc tggtgggggc tgctttgggg 240
gctcatcagg tggctatgga ggattaggag gtttttggtgg aggtagcttt cgtggaagct 300
atggaagtag cagctttggt gggagttatg gaggcagctt tggaggcggc agtttcggag 360
gtggcagctt tggtgggggc agctttggtg gaggcggctt tggtggaggc ggctttggag 420
gaggctttgg tggtggattt ggaggagatg gtggccttct ctctggaaat gaaaaagtaa 480
ccatgcagaa tctgaatgac cgcctggctt cctacttgga caaagttcgg gctctggaag 540
aatcaaacta tgagctggaa ggcaaaatca aggagtggta tgaaaagcat ggcaactcac 600
atcagggga gcctcgtgac tacagcaaat actacaaac catcgatgac cttaaaaatc 660
agattctcaa cctaacaact gataatgcca acatcctgct tcagatcgac aatgccaggc 720
tggcagctga tgacttcagg ctgaagtatg agaatgaggt agctctgcgc cagagcgtgg 780
aggctgacat caacggcctg cgtaggtgc tggatgagct gaccctgacc aaggctgacc 840
tggagatgca aattgagagc ctgactgaag agctggccta tctgaagaag aaccacgagg 900
aggaaatgaa agaccttcga aatgtgtcca ctggtgatgt gaatgtggaa atgaatgctg 960
ccccgggtgt tgatctgact caacttctga ataacatgag aagccaatat gaacaacttg 1020
ctgaacaaaa ccgcaaagat gctgaagcct ggttcaatga aaagagcaag gaactgacta 1080
cagaaattga taataacatt gaacagatat ccagctataa atctgagatt actgaattga 1140
gacgtaatgt acaagctctg gagatagaac tacagtccca actggccttg aaacaatccc 1200
tggaagcctc cttggcagaa acagaaggtc gctactgtgt gcagctctca cagattcagg 1260
cccagatatc cgctctggaa gaacagttgc aacagattcg agctgaaacc gagtgccaga 1320
atactgaata ccaacaactc ctggatatta agatccgact ggagaatgaa attcaaacct 1380
accgcagcct gctagaagga gagggaagtt ccggaggcgg cggacgcggc ggcggaagtt 1440
tcggcggcgg ctacggcggc ggaagctccg gcggcggaag ctccggcggc ggccacggcg 1500
gcagttccgg cggcggctac kgaggcggaa gctccggcgg cggaagctcc ggcggcggct 1560
acggggcgg arctccagcg gcggccacgg cggcagttcc agcggcggct acggtggtgg 1620
cagttccggc ggcggcggcg cggctacgg gggcggcact ccggcggcgg cacagctccg 1680
gcggcgkata cggcggcggc acagctccgg cggcggatac ggcggcggca cagctccggc 1740
ggcggatacg gcggcggcac tccagcggag gccacaagtc ctcctcttcc gggtccgtgg 1800
```

```
gcgagtcttc atctaaggga ccaaggtcag cagaaactag ctggggtaat cagaattagt 1860
tttaacttcc tgtgatggtt tttttgcgct ttaactctag agttgtttta aaaaattaaa 1920
aatcttagag cggttccgtt gcattgttca caactantct taacaccagc cgtgaaaatg 1980
gctgatcaaa tncan                                                   1995
```

<210> 442
<211> 1723
<212> DNA
<213> Homo sapiens

<400> 442
```
agcagcactt ccggtacgaa aaactcgctg ctgccccaac ctggcttgac aggcttggtc 60
tctgcaagtg gctctcagcc ccttcttctt tcctgcctca ccttccaatt cgtttgccgc 120
cgccgtcccg cagctgctgt ttccggagtt gccccttccc catgttccgg ggcaggagtc 180
cgcaaagcga agatccgccc gccggttcct catcatgtcc gaactgacta aagagctgat 240
ggagctggtg tggggcacca agagcagccc cggtctctcg gacaccattt tctgccgctg 300
gacgcaaggg tttgtgttta gtgaatcaga gggatctgca ttagaacagt ttgaaggtgg 360
cccctgtgct gttattgcac ctgttcaggc atttcttttg aagaagctcc tgtttttcttc 420
ggagaagtct tcttggcggg attgttcaga ggaagagcag aaggaactcc tttgtcatac 480
cttgtgtgat attttagaaa gtgcttgttg tgaccactct ggatcatact gcttggtttc 540
atggttaaga ggaaagacaa ctgaggaaac tgctagtatt tctgggagtc ctgcagagtc 600
tagttgccaa gtggaacatt cttctgcctt ggctgtcgaa gagcttggct ttgagcgatt 660
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tgtttctaat gtatgggatg gtgatagaga gtgctcagga atgaaacttc ttggtataca 960
tgaacaagca gcagtaggat ttttaacact aatggaagct ttaagatact gtaaggttgg 1020
ttcttacttg aaatctccaa aattccctat ttggattgtt ggcagtgaga ctcacctcac 1080
cgtatttttt gccaaggata tggctttagt tgcccctgaa gctccttcag aacaagccag 1140
aagagttttt caaacctacg acccagaaga taatggattc atacccgatt cacttctgga 1200
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gcagtcaaat tataatgaaa aggtcatgta cgtagaaggg actgcagttg tgatgggttt 1440
tgaagatccc atgctacaga cagatgacac tcctattaaa cgctgtctgc aaaccaaatg 1500
gccatacatt gagttactct ggaccacaga tcgctctcct tcactaaatt aatttgtcta 1560
agtatttata aggaagatct taataacaga tgttgaaaga aggagtcaag actggcaatt 1620
ggctggatta agctaaacac tggtatcact gattaactgt aaataacaat taaaaacaca 1680
ttttcagtgt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa                   1723
```

<210> 443
<211> 1899
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

```
<220>
<221> misc feature
<222> (1878)
<223> n equals a,t,g, or c

<400> 443
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ggtgcctgga tgacaagtgg acagtttaag ccggttcctc agatcctaat ggagctgccc 120
cctgccgagc aacaraggct ctttaacgaa gccgcagcca tcatcaggca cctggagtgg 180
acggacgccg tgcagctgac tgcgctggtc atgggcagcg aggccctgca gcagcagcts 240
ctggccatgc tggtgaacta cgtcaccaag gagctgcggg ccgagatcca gtatgatgac 300
taggccgcac ctccggggag gtgrggnkgc ccctttaaat gactctgtga ttctgaagag 360
gtggcttggg agttgggaga agcccagcgg atgccccctg gggaatctcc acatcatcag 420
tgtattacta gtaatgtccc gctggagagg ccaccgctgt gcagtgtcat gttccagaaa 480
ttactgatga agcagcatgt gttggtggca tgtgcactgg cctgccatga cagccctctg 540
actggccccc cagtgaagag taaaggcctg cctgccgcag yttcggaggc gtctgctgag 600
tcctctcacc cgcatgggtc tggggaagtg atcacgctca gccgacggtc tgaccacact 660
tcatcctccc cccggggcct tctcatcttg ggagatgact cctcttcaga gcacctgctg 720
caggactgga tcccaccccs ctgcaggtcc tggggtctca gggccttgga gcagcccatg 780
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cacggagggg acgggcggcc tgctgagtga agccacaaat accgagtgga cttgaccccg 900
gcccccacta ggctgcacac ctagactcgc cctgccaggg cctcgctctt cccatctgaa 960
aagtcctggt agttcttgag gtttacttct caaatgaaat attttttagta aaaagtacag 1020
gtatatctcg gagatattgt gggttcagtt ccagaccacc tcggtaaagc caacatcaca 1080
ataaagcaag gaagcgcatt gttttagttt cccagtgcat ctaagtcatg tttactgcat 1140
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gctctcygta actgtggtct ccacatttag atccaaccag ccttggatag gaaatatttg 1500
aaaaaagaaa ttgcattggt actgaacacg tacagacctt ttttcttgc cattattccc 1560
taaacaatat ggtgtagcat atttacatag catttatatt gtatttggta ttataagaaa 1620
tctagagatg atttaaatta tacaggaagg tgtgcgtagg ttacgtgcaa acgctatgcc 1680
attgcccatc agggacttga gcatcctcag atgtcggtgt ctgagggttg aggttgcagt 1740
cctggaaccc atcccccatg gatactgagg catagctgta ctgtgtgttt tcactttgct 1800
ttcagaacta cgacttgaat gtgatcgatt acaataaatg tttttctaaa aagccaaaaa 1860
aaaaaaaaaa aaaccccngg gggggcccgg taccaattc                         1899

<210> 444
<211> 430
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<220>
<221> misc feature
```

<222> (413)
<223> n equals a,t,g, or c

<400> 444
actacaaaaa ggagtgctga agccaatcac catgtaagca agataaaagc aaaggggggtc 60
ttgcctgccc atctctgttc catacattct taccaggcac tgagagtcat ggggagttta 120
agactccatc ccacatactc cttttgaaac tggtccagtg tacaacatcc agtgaagagt 180
ataggatggc atagacttac caactcaaag aatggaagga ttctagaaac attatagtcc 240
aacctcctca attcatcgtt gatacacaaa ggcccactaa gctgtgtggt tcactcagca 300
tcacgtggct aatatgatat gaagccacac tagcttgtcc tcagctgtgc caagaatgag 360
agctgccttc tccaaaccta aaaccaaccc atggnatcat taacacctct ttnaaatcca 420
tagggcagtg   430

<210> 445
<211> 2153
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<400> 445
aggtgcctgg gtcgcagcct cttgagacgg gagccctccg agaagactca ctgcccccga 60
gaatcctact gcacccctgg tttgagtccg tcttggaacc cgggtacatc gactcagaaa 120
taggaacttc agaccagatt gttccagagt accaggagga cagtgnacat tagttccttc 180
ttctgctaat ccccaaaacc tcagaaacct cataattctt aacacctggc atttccattt 240
ctaaagatgg acaggccctt tggcgtggta ccaaccagat aatgactgca tcaggatgaa 300
agctgctgaa ctcggcatgg ygcctcctct tctctgttgg gatgagtgac tttattgatt 360
tgagcagcat atgctgtgat tggctgccct gcaaatttgt ttcccttaag gaaccctcac 420
caactatctc tgctggattt gggagttccg catcttttgt ggagggcaga gtatggacat 480
cttacacccg gtggtcaagt gtgtaataaa cttgagcatt cgaatgggag aaaaagcaaa 540
tcgcacaatg acatattttg agtaataacc gtatttttca cagggtgaca aattgggcca 600
ataaatctgc catctttgaa ctcatctttg gtggctagac tgctacggca gcttctctga 660
tgggaaagtt ccttttttgg cttaacactc accctttctt cacactcaca tttaccaatg 720
actctgctcc gtttttggag cagactgttt taagttgctc aggagcctga tggaaccatg 780
aaccgagact cttctctgtt tcctgccaag acctcatctg cactaatgcc ttctccctga 840
ccttgacact tccccctta gctataaaag cacttaccag ccgaacgtgg aacagtatca 900
caaaagattc catctcccaa cgatttcaga actctgagct cagagagact ccagattta 960
aaaaataatt tgagtgcttg gaaactatta gcttttttaag ttccttccaa atatgttagt 1020
acctacccctt tactttttcc ccaagaccat ctcagggtgg agcattctgt ctaagagaag 1080
aaagataagg aggctcccac ccacctctcc caagagcaga cattaaacat ctttgtgctt 1140
tgaagagagt gaattttgga tagtcttgtg attctcagac taacttccag aattatactt 1200
taaccctcc cagatatggt ccgcctttgg cattgtgtgt acatctgcag ttttgcatgg 1260
tgggttgtta atatttcaaa tgtgtggttt atgaatacgt ctgtataatc ggcttctgga 1320
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atctctttcc tctttctgcc acctcccaag gcagaaatcc cctcttcagc ttcttttgta 1440
ggtgggaatc cagcctctgt tagatatgtc cagagatgga aactcactcc cctacaaaag 1500
atggagctta atggagaaat tgcaactttc attaaaaaac aaattcagat gaaatatcag 1560
taactgtctt ggacagtgct gaaatcaggt ggttaaacgg gtaaacaaaa tatactgtat 1620

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tttgagaaat ggcacaaaaa caggcagtca tctttaaggg ctatgcctag gcaaactact 1680
aacatgcatt gtgagaatgc cgtgtatacc tcacgtactg tgtactttgt acatatattt 1740
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ttttgttgtc tgtgtctgtc tgaataacct gcgtgtctaa aaccacgtga aatgtgaatg 1860
attattggca atattacctt gacagaatca tgggactttg agaagaggga ggacagaggc 1920
ctctgtcgca ctaacgctct cgtggttgct cgactgttgt atctgtgata cattatccga 1980
ctaaggactc tgggctggca gggccttctg ccgggaaagc tagaaacact aggttcttcc 2040
tgtacatacg tgtatatatg tgaacagtga gatggccgtt tctgacttgt agagaaattt 2100
taataaacct ggtttcgtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa aag         2153
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<210> 446
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (475)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (489)
<223> n equals a,t,g, or c

<400> 446
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ggcacgagct ggccagctcc gagttctccc atgaagccgt caagacgcac attgacaccg 60
tcatcaatgc cctcaagacg gagcgggacg tcagcgtgcg gcagcgggcg gctgacctcc 120
yctacgccat gtgtgaccgg agcaatgcca agcagatcgt gtcggagatg ctgcggtacc 180
tggagacggc agactacgcc atccgcgagg agatcgtcct gaaggtggcc atcctggccg 240
agaagtacgc cgtggactac agctggtacg tggacaccat cctcaacctc atccgcattg 300
cgggncgact acgtgagtra ggaggtgtgg taccgtgtgc tacagatcgt caccaaccgt 360
gatgacgtcc agggctatgc ccgcaagccc gtctcccgtc acctgtgtga gctgctggca 420
cagcagttct gagccctgga ctctgccccg ggggatgtgg ccggcactgg gcannccctt 480
ggacttgang ca                                                     492
```

<210> 447
<211> 1539
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<400> 447
natcatagag gaaacggtan tctgncagta ccgtccgaat tcccgggtcg acccacgcgt 60
ccgggcaaac tagacattgt aatgcataag atgcaggaaa aagtgcagag cattaactat 120
aacccttttg accagaaact ttatgtctat aacgatggtt accttctgaa ttatgatctt 180
tctgtcttgc agaagcccca gtaagctgtt taggagttag ggtgaaagag aaaatgtttg 240
ttgaaaaaat agtcttctcc acttacttag atatctgcag gggtgtctaa aagtgtgttc 300
attttgcagc aatgtttagg tgcatagttc taccacacta gagatctagg acatttgtct 360
tgatttggtg agttctcttg ggaatcatct gcctcttcag gcgcattttg caataaagtc 420
tgtctagggt gggattgtca gaggtctagg ggcactgtgg gcctagtgaa gcctactgtg 480
aggaggcttc actagaagcc ttaaattagg aattaaggaa cttaaaactc agtatggcgt 540
ctagggattc tttgtacagg aaatattgcc caatgactag tcctcatcca tgtagcacca 600
ctaattcttc catgcctgga agaaacctgg ggacttagtt aggtagatta atatctggag 660
ctcctcgagg gaccaaatct ccaacttttt tttcccctca ctagcacctg gaatgatgct 720
ttgtatgtgg cagataagta aatttggcat gcttatatat tctacatctg taaagtgctg 780
agttttatgg agagaggcct ttttatgcat taaattgtac atggcaaata aatcccagaa 840
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agttttctat ggaactgatc taagattaga aaaattaatt ttctttaatt tcattatgra 1080
cttttattta catgactcta agactataag aaaatctgat ggcagtgaca aagtgctagc 1140
atttattgtt atctaataaa gaccttggag catatgtgca acttatgagt gtatcagttg 1200
ttgcatgtaa tttttgcctt tgtttaagcc tggaacttgt aagaaaatga aaatttaatt 1260
ttttttcta ggacgagcta tagaaaagct attgagagta tctagttaat cagtgcagta 1320
gttggaaacc ttgctggtgt atgtgatgtg cttctgtgct tttgaatgac tttatcatct 1380
agtctttgtc tattttcct ttgatgttca agtcctagtc tataggattg gcagtttaaa 1440
tgctttactc cccctttaa aataaatgat taaaatgtgc tttgaaaaaa aaaaaaaaaa 1500
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggcggcc                        1539

<210> 448
<211> 3983
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (60)
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c       ·

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1010)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3067)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3255)
<223> n equals a,t,g, or c

<400> 448            ·
tgtccccttc ccttggtatc cctataactt tacctgttgg acaggtaggg ggaaggggan 60
agtaatnagt ctcacctgct aaagagcaag ggtggggcaa gacacacccc atcccttcca 120
ttggtttttt ccttagtctt actgacagag ccttgtccaa tcaggaggaa gtaactttct 180
atctgccaat agatgcaatg ttaggatgag acctcaagtt agagtcnatc cctagagccg 240
actggcagtc cccgggggcca atggcaagcg gataaacaga ggcggccgtg gaagaggact 300
ggaggcgagc tccgcccctc cacggganag tcaggcgaga tagccagtga gctcgcacca 360
gagggtgggc gtctccccca ggggcggagc ttcgaggtgg cgaggggcgt ggcttggctg 420
tcaggtctct tcgccttttg ttcggttact gagttgctgc cttggccaga gtccggagca 480
gccgccgccc gaccrcgccg agctcagttc gctgtccgcg ccggctccca ccccggcccg 540
accccgaccc ggcccggtca ggccccatac tcagtagcca cgatggaggt gatgaacctg 600
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cactcgggcg ccaacacctg cgtgccctcc gtcagcagca agggcatcat ggaggaggat 720
gaggcctgcg ggcgccagta cacgctcaag aaaaccacca cttacacccca ggggtgccc 780
cccagccaag gtgayctgga gtaccagatg tccacaacag ccagggccaa acgggtgcgg 840
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gaggggcagg ccaccaacct gcagcgactg gccgagccgt cccagctgct caagtcggcc 960
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cagcatcctg cacaacctct cccaccaccg ggaggggctg ctcgccatct tcaagtcggg 1260
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cgcctggtgc agaactgcct gtggaccctg cgcaacctct cagatgtggc caccaagcag 1740
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gtcctcacct gtgccacggg cacactgctc caacctgaca tgcaacaaca gcaagaacaa 1860
gacgctggtg acacagaaca gcggtgtgga ggctctcatc catgccatcc tgcgtgctgg 1920
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gaatctggcc ctgtgcccag ccaaccatgc cccgctgcag gaggcagcgg tcatcccccg 2160
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gaactccacc gaccaactgc cctaagcccc caggcctcc agggcccagg ttcgagaccc 3540
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aggagatatg gagtgagtca cctgctccag aagatgccag cttctctctc cagggtgctt 3660
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tgtcccaccc acacagctgc cctagctgac cccgagaagt gctcttggct gacccctctg 3780
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tggtgtgggg ggctggggga ggtccaagca gagtgtttta ttattatcgc tttatgtttt 3900
tggttattgg tttttttgta tagaccaaag caaagaaaat aaaaataaca cagatgaaaa 3960
aaaaaaaaaa aaaaaaaaaa aaa                                    3983
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<210> 449

<210> 1177
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<400> 449
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catttgggtt ggaataaaaa tgcattttta ttcacaaggc acagacagat aagaatatca 120
taagcaggga agtgtctcca aaggtcagga cttatgtttt tctgttgagt gctatatgtg 180
gaggttattg caagttccct gatatgagta tggtttcgct tgctacattg tgcctattaa 240
agtaaaattt tacacaagcc tcgcatttct aagattagtg ttcccgaatg aaatgttnaa 300
gaaaacatta aaagattatc tcttttttaag atggaggaaa aaaagtgaac aaagctaatt 360
aatctataat gaaaattgca caaaataaca tttcttaaca aatttaatac aattttgtgt 420
tctttgttgc tagtggtata aaacgagatt tttttccctc atttttctca ttgtagatgt 480
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ctactgacaa atgtctgaac tattgtcgtg cccttcaaaa ctggagtttt ctaaaataat 1080
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```

<210> 450
<211> 2428
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2009)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2037)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2420)
<223> n equals a,t,g, or c

<400> 450

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ggtttgaggc ctgctttctg ctcgcgccag cagagcacta cctgaggcag cgaggcgcag 120
cgagcctagc ctccccgcgc cctgggcagt gtggccatgg agaatcaggt gttgacgccg 180
catgtctact gggctcagcg acaccgcgag ctatatctgc gcgtggagct gagtgacgta 240
cagaaccctg ccatcagcat cactgaaaac gtgctgcatt tcaaagctca aggacatggt 300
gccaaaggag acaatgtcta tgaatttcac ctggagttct tagaccttgt gaaaccagag 360
cctgtttaca aactgaccca gaggcaggta aacattacag tacagaagaa agtgagtcag 420
tggtgggaga gactcacaaa gcaggaaaag cgaccactgt ttttggctcc tgactttgat 480
cgttggctgg atgaatctga tgcggaaatg gagctcagag ctaaggaaga agagcgccta 540
aataaactcc gactggaaag cgaaggctct cctgaaactc ttacaaactt aaggaaagga 600
tacctgttta tgtataatct tgtgcaattc ttgggattct cctggatctt tgtcaacctg 660
actgtgcgat tctgtatctt gggaaaagag tcctttatg acacattcca tactgtggct 720
gacatgatgt atttctgcca gatgctggca gttgtggaaa ctatcaatgc agcaattgga 780
gtcactacgt caccggtgct gccttctctg atccagcttc ttggaagaaa ttttattttg 840
tttatcatct ttggcaccat ggaagaaatg cagaacaaag ctgtggtttt ctttgtgttt 900
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cagatttatc ttataatgat attttttaggt ttatacataa attttcgtca cctttataaa 1200
cagcgcagac ggcgctatgg acaaaaaaar aaaaagatcc actaaaaaga aagatttaga 1260
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ggaattaatt attctgtacc taaggggtta cttgtttaat gggatggcat tgactttttg 1740
aaaatcaagt ggactgagtc attgataaaa catttctaag agtggggcta gagaacatac 1800
```

```
tttacatctg acatcctttg gcctaacaac atctattatt atagtgctca gcagtgtggg 1860
cattgaagag gcgcagaatg ctttgaaaga aactaatcag aatcttggaa catcatgatc 1920
atgccattct taagtaaatc aactattttc aacactgaag aaaaatgaaa cattatttag 1980
aaaacaatga gattacaagt tccaaactnc agccaggaat gtgggctcac acctgtnaat 2040
cccagcactt tgggacacct aggtgggagc atcgcttgaa gccaggagtt caagaccagc 2100
ttgggcaacg tagtgaggac ccctatctct acaaaaaata aaaaaattag ctgggtgtga 2160
tggcacacac ctgttgtccc agctactcaa gaagctgaga tgggaggatc ctgagctcag 2220
gaggtcaagg ctgcagtgag ccgagaatgt gccactgcac tgcagctggg gtgacagtgc 2280
aagaccctgt cttcaaacca aaccaaacca cacacacaca aacacacata cacacacaca 2340
canacgangg tccaaatggt agcagggatc caaangggac acagtangta gggtcaaact 2400
gggcagttac agtgtacagn ctttgaca                                    2428
```

<210> 451
<211> 2485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<400> 451

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cagctggttc gaaaattagg ccgaggtaaa tacagtgaag tatttgaagc catcaacatc 180
acaaataatg aaaaagttgt tgttaaaatt ctcaagccag tnaaaaaaga agaaaattaa 240
gcgtgaaata aagattttgg agaatttgag aggaggtccc aacatcatca cactggcaga 300
cattgtaaaa gaccctgtgt cacgaacccc cgccttggtt tttgaacacg taaacaacac 360
agacttcaag caattgtacc agacgttaac agactatgat attcgatttt acatgtatga 420
gattctgaag gccctggatt attgtcacag catgggaatt atgcacagag atgtcaagcc 480
ccataatgtc atgattgatc atgagcacag aaagctacga ctaatagact ggggtttggc 540
tgagttttat catcctggcc aagaatataa tgtccgagtt gcttcccgat acttcaaagg 600
tcctgagcta cttgtagact atcagatgta cgattatagt ttggatatgt ggagtttggg 660
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tgatcagttg gtgaggatag ccaaggttct ggggacagaa gatttatatg actatattga 780
caaatacaac attgaattag atccacgttt caatgatatc ttgggcagac actctcgaaa 840
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tttcctggac aaactgctgc gatatgacca ccagtcacgg cttactgcaa gagaggcaat 960
ggagcacccc tatttctaca ctgttgtgaa ggaccaggct cgaatgggtt catctagcat 1020
gccagggggc agtacgcccg tcagcagcgc caatatgatg tcagggattt cttcagtgcc 1080
aaccccttca ccccttggac ctctggcagg ctcaccagtg attgctgctg ccaaccccct 1140
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gcctgagcag aggtggggga gtccaccctc tccttgatgc agcttgcgct ggcggggagg 1260
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cctcaatccc ggctgctgca tttaggtgga gacttcttcc cattcccacc attgttcctc 1560
caccgtccca cactttaggg ggttggtatc tcgtgctctt ctccagagat tacaaaaatg 1620
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```

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tctgtacagg tttcatgcta gagctaatgg gagatgtggc cacactgact tccattttaa 2160
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gccacccctt gctgtgtgta tatatataat actttgtcct tcatatgtga aagatccagt 2400
gttggaattc tttggtgtaa ataaacgttt ggttttattt atcaaaaaaa aaaaaaaaaa 2460
aaaaaaaaaa aaaaaaaaaa aaaac                                    2485
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<210> 452
<211> 963
<212> DNA
<213> Homo sapiens

<400> 452
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ggccgggact ctgaactatg gcggctagtg atacagagcg agatggacta gccccagaaa 180
agacatcacc agatagagat aagaaaaaag agcagtcaga agtatctgtt tctcctagag 240
cttcaaaaca tcattattca agatcacgat caaggtcaag agaaagaaaa cgaaagtcag 300
ataatgaagg aagaaaacac aggagccgga gcagaagcaa agagggaaga agacatgaat 360
ccaaagataa atcctctaag aaacatagt ctgaggaaca taatgacaaa gaacattctt 420
ctgataaagg aagagagcga ctaaattcat ctgaaaatgg tgaggacagg cacaaacgca 480
aagaaagaaa gtcatcaaga ggcagaagtc actcaagatc taggtctcgt gaaagacgcc 540
atcgtagtag aagcagggag cggaagagt ctcgatccag gagtagggag cggaagaaat 600
cgagatccag aagcagagag aggaagaaat cgagatccag aagcagggaa agaaaacggc 660
ggatcaggtc tcgttcccgc tcaagatcaa gacacaggca taggactaga agcaggagta 720
ggacaaggag taggagtcga gatagaaaga agagaattga aaagccgaga agatttagca 780
gaagtttaag ccggactcca agtccacctc ccttcagagg cagaaacaca gcaatggatg 840
cacaggaagc tttagctaga agagaaagac cgggggtctc ccttattgtt tgcccaggct 900
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agc                                                             963
```

<210> 453
<211> 604
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature

```
<222> (517)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (540)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (567)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (593)
<223> n equals a,t,g, or c

<400> 453
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cgtgggcaaa gtatgtggtt cgtgaaggtg ataatgtgaa ttatgattgg atacactggg 120
atccagaaca ctcatatgag tttaagcatt ccagaccaaa gaagccacgg agtctaagaa 180
tttatgaatc tcatgtggga atttcttccc atgaaggaaa agtagcttct tataaacatt 240
ttacatgcaa tgtactacca agaatcaaag gccttggata caactgcatt cagttgatgg 300
caatcatgga gcatgcttac tatgccagct ttggttacca aatcacaagc ttctttgcag 360
cttccagccg ttatggaaca cctgaagagc tacaagaact ggtagacaca gctcattyca 420
tgggtatcat agtcctctta gatgtggtac aagcscatgc ttcaaaaaat tccagcagat 480
gggattggaa tatggtttgg atgggggaca gattccnggt taattttcca ttcctgggan 540
cctagaaggg gactccatgg atctttnggg ggatagccag aattgtttgg ccncaatccc 600
cagt                                                                604

<210> 454
<211> 1917
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1256)
<223> n equals a,t,g, or c

<400> 454
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cagggaagcc agcaggagct aggagagagt ccgtggatct cgaaagaaat atgggagaca 120
gatgcccggc ggtgcgtctg gagatgggga cggcgggagt tgagttgtgg cagtagtyga 180
gttgtaattt gtgggcggag gcagkaggag actccccacc cttcacccct gccccactct 240
gtccccagtt ccgccatttg tgaggccaga ggtttccgga ctgttggcct cgcaggcagc 300
cgtctcccgc cccagggcaa tccccagtc cctcccgcct ccacgagagc ctggagctct 360
cagcctcgcc cggggctcca ctctctcctc cggctccctg ggctgttttg ctctaacgat 420
cttgccagat ccctccctct gtagacaacc accaacctct gtttgctgtt gaattctctc 480
ctcacattac ccaggtctgc tcaagacatg attttggttt tggtttctga gggttctagt 540
```

```
gggcagaagg ttggagggac acttatgagg gtggccgggg gtctgacgct gcactttgga 600
aaaactcaca cagttgaatt tccaaagaaa tctgcccttt gccctctttg caccttttgat 660
acattctgga agttttctca ggctttggac acttctgggg atggaggtgt ggagaagtgg 720
ggagttccct ctcttcatag taaataactc tgaaatatgt gaatgtgaat ggcaggagaa 780
tctggccaag gatggggccg aaaagggtgg ttctaattgt ttgcttctga tgttgagtct 840
ttagctgacc ccacaggcag gtttccaagg tgcaaagaga tctttcccga gtcagcggcc 900
ccatcctcat cctccctccc tttacttcct cactgtgcag tctccctcaa ggatctactg 960
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cggcaagagg cctgcagcaa ggagattccc ttccctcggg ccattatcaa tactkncttt 1260
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ctgggtcagc ctggaaaatc catctattag ggactttttg gcagccagat ggcagcaata 1440
gcccattagg tctcatcccg agttccaagt cttggctgca aatgagcctc agttcgcctt 1500
actggagagc acccccagat tcctgggcac agttcatttc cagccctttc tagatctgat 1560
cttttagggg gaaagacagc ttaaaatgtt ctttttcattt taaagaaaat tattctgtct 1620
gcttaagttg gaggctactt actctttcac ctgacatttt ctttccttttt attcttccag 1680
atcaggaatg aaatttccat gctgctcata aagataatat tattgtacta attattttta 1740
ttaccattgt aattatgatc attatgttga tattttagtc agggtttttaa atgcacattt 1800
attccaagta tctttgtgtt ttctctttaa tatttaaact tattctctct gtgagtatat 1860
aagtagactg gagggacatc cagatgtcca gttttgtcag gcaaaaaaaa aaaggaa    1917
```

```
<210> 455
<211> 1538
<212> DNA
<213> Homo sapiens
```

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<400> 455
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ggcaggagcc ttccttacac ttcgccatga gtttcctsat cgactccagc atcatgatta 180
cctcccagat actatttttt ggatttgggt ggcttttctt catgcgccaa ttgtttaaag 240
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gcaccatgtt tgagctcatc atctttgaaa tcttaggagt attgaatagc agctcccgtt 360
attttcactg gaaaatgaac ctgtgtgtaa ttctgctgat cctggttttc atggtgcctt 420
tttacattgg ctatttatt gtgagcaata tccgactact gcataaacaa cgactgcttt 480
tttcctgtct cttatggctg acctttatgt atttcttctg gaaactagga gatcccttttc 540
ccattctcag cccaaaacat gggatcttat ccatagaaca gctcatcagc cgggttggtg 600
tgattggagt gactctcatg gctcttcttt ctggatttgg tgctgtcaac tgcccataca 660
cttacatgtc ttacttcctc aggaatgtga ctgacacgga tattctagcc ctggaacggc 720
gactgctgca aaccatggat atgatcataa gcaaaagaa aaggatggca atggcacgga 780
gaacaatgtt ccagaagggg gaagtgcata acaaaccatc aggtttctgg ggaatgataa 840
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gagttgggaa aacggatcct gtcacaagag gcattgagat cactgtgaat tatctgggaa 1140
tccaatttga tgtgaagttt tggtcccaac acatttcctt cattcttgtt ggaataatca 1200
tcgtcacatc catcagagga ttgctgatca ctcttmccma ggtgatacta tgaccatgag 1260
```

```
tagcatcagc cagaacatga gagggagaac taactcaaga caatactcag cagagagcat 1320
cccgtgtgga tatgaggctg gtgtagaggc ggagaggagc caagaaacta aaggtgaaaa 1380
atacactgga actctggggc aagasatgtc tatggtagct gagccaaaca cgtaggattt 1440
ccgtttttaag gttcacatgg aaaaggttat agctttgcct tgagattgac tcattaaaat 1500
cagagactgt aaaaaaaaaa aaaaaaaaaa gggcggcc                         1538
```

```
<210> 456
<211> 2189
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<400> 456
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ttcttttat ttttccttaa atcttacttg tttctagcgt cttaagagtg gtaatggtaa 180
aatgtgaagt tacaataaac ttctgcttgt tttctcagaa catctttggc atgaggaaga 240
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cctacctgaa ctgtgaggaa cagagtgtat agtacaaatg taattaggca ttgcctcctg 420
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ctgtttttga gttggaaaaa ataaaagatg aggtattata agtatgccaa atatttatac 600
actacaaaag attaaaaaag gagagggaga aaaaaaaagg ccagttatga tttttaatagc 660
gtctaatttt tttttgactc gaattttgtg gacactagtc aattgcataa tttaacatgg 720
aggagctttc atttaaaaga agttctcagc tactatattc tgccattaaa attaaccatg 780
cctgttaatt ttacattgct tgaagatata agtaagctgc cgtcaatatt gttttaagat 840
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gcattggcca ttaaagataa gtttggctaa ctattttact gaagagacta atggtcttcc 960
ctctgttgta ctgctatgtt tcttgatctg ttttccccca atgtaacagt ctacattgaa 1020
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atatgcagag tgtgcttatg ggtttctggg agttcaagtt agtaccccag agtgcttaaa 1200
agtatgatgc taaattctaa ggctaatgta atgactgtag attatctatg tccacattgt 1260
tcaacagaaa tataatgtga accacaacat aatttttaat tttctagtag ccatattaaa 1320
aaagaaacaa gcaaaattaa ttttaataac agtttatgta acccagtata ttaaaaatat 1380
catttcaaca tgtaatcaat ataaagatt attaatgaaa caccttatct tcttttttctt 1440
ccatactaag tcttagattt gagtgtattt tgcactcaca gcacatctca attctgactg 1500
gccacatttt aagtgctcag tagtcacata tggctaaggg ctactatact ggacagtaca 1560
gattcataga gtataaaata tgactttaac tttggagatg gtgaggtagg cctgtaatta 1620
tggtactttta aaaattcaga atatttagaa aagcatctaa tagaattatc cacttgwttt 1680
ccttcatctt cattttaata tgttctagaa gtaggatcag cctgttccaa tttgccaagc 1740
attattaagg aggaataatt ccataccatg taaaatacca tgatatgctg attatactac 1800
attaacaaat ttttaagttg cgttcactaa attctgtcct gtttcttcaa aataatatag 1860
cttaaattgc atgttaattg tatatcttac ctattttgtt tttatattat tcttacaata 1920
taatcatgta tattaacaaa cagccctggg attctaatct tcctctgcaa ctgtcttcca 1980
ggacttactg gcacttatta cactgtgata agtggcagaa aagtagaatg aaatattctt 2040
```

```
tttccattag atttgttctt atgtgaccat gtaccaagcc agctataaag tattgtattt 2100
ctgtagaata tggaaaatag tatttgtctt acctttgcta aatgtttgca atttctaagt 2160
aaacctttta tctcctaaaa aaaaaaaaa                                   2189
```

<210> 457
<211> 1399
<212> DNA
<213> Homo sapiens

<400> 457
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gcaccccgcc ttgtagtgac ctgtcggcac gtgtcccctc gggaagcagc cagggtcctg 60
gtgcgctcca ccaccccaa gagtgtggcc atctggggcc gtgtggtatt tgccactcag 120
gagacatgtc cctatgacat agcagtggtg agcctggagg aggacctgga tgatgtcccc 180
atccctgtgc ccgctgagca cttccatgaa ggcgaggctg tgagtgtggt gggctttggc 240
gtctttggcc agtcttgcgg gccctcggtg acctcaggca tcctttcggc tgtggtgcag 300
gtgaatggca cgcccgtaat gctgcagacc acgtgtgctg tgcacagcgg ctccagtggg 360
ggacccctct tctccaacca ctcaggaaac ctccttggca taatcaccag caacacccgg 420
gacaataata cggggccac ctacccccac ctgaacttca gcattcccat cacggtgctc 480
cagccggccc tgcagcagta cagccagacc caagacctag gtggcctccg tgagctggac 540
cgcgctgctg agccagtcag ggtggtgtgg cggttgcagc ggcccctggc agaggccccg 600
cggagcaagc tctgaggctg tgttaccacc tttgaaaga agagtgacct ttttctgctg 660
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ccaggctgcc tctcatctcc acccactgac tgcagactgg gctttgggct ctggggcaaa 780
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cactccaact gcacagaagt tctgggcctg acaggtagat tccagctgga aggcaggccc 960
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tcttcatatg ccaacagggg cgctcttgac actgtgcctt catttccag cccacagcct 1260
gggtctcagg gatcttgagg ggtagaacat gtctggttgg ggcttgggaa taaacatgat 1320
ctattgaaaa accwcwrtat ttatatttca aaaaaaaaa aaaaaaaaa aaaaaaaaa 1380
aaaaaaaaa aaaaaaaa                                               1399
```

<210> 458
<211> 709
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<400> 458
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cacgagcggt cacgagattt aatgtttcca aggttagacg ttcacttttt gagacgnttg 60
agtagctttt cacttaattg actagcatgt atgggtttct ttacccaggt ccacaattca 120
ctacacaggt ccagaaaaaa agctgatctc tgaaaagcac taggagaagg cagctagaga 180
gggagaattc taattaggcc ggggtcctct gtggcttgaa tgactgaata agttttttata 240
gtcttcaatt cagtgacttc cagattcttc ccaaagaaat ttctagrgat caagagtagg 300
```

```
ctctttcgga agtacttgcc cgtattacac tttaatttta caaaccaaac aacagcaatt 360
caaccaatca aacaacaaaa acaatccaaa gaaagagact tggacatagg catcaaggaa 420
tcatttcact ttataattta atagaacact ggtgtatcat tcattaattc tgaaagtgag 480
aactaaatgt aaaataattt tgtaaggttt gtgaattgtt gcctaggtat tctggtgatg 540
tttactttag tgattttatc attaatgaaa gcaatgtgtt tttttagaaa acatattatt 600
agggttcata acgttgacat tctgttggtg caatcataat ctcctgtttt gttttagtcc 660
tagctctaca gttgaatgaa tccaagctca cctccaggcc ttttgctat          709
```

<210> 459
<211> 1283
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<400> 459
```
agcagtctgc cgtggccatg tacatgctct ataagaagca gaagcagcag aacgtggccc 60
actgcatgct ggtaagcaac cgcgtnctcc tggtggggga gcacgctggc catgctgcag 120
cgccttcaag gagcagcagt tcgtnatcgc cggggtcttg gtggaggaca gcaacaacca 180
ccacctcatg ctggaggcca gcragtgggc caccatcgag gggctggtgg agctcctgca 240
gcccttcaag caggtggccg agatgctgtc ggcctccagg taccccacca tcagcatggt 300
gaagccgctg ctgcacatgc tcctraacac cacgctcaac atcaaggaga ccgactccaa 360
ggagctcagc atggccaagg aggtcatcgc caaggagctt tccaagacct accaggagac 420
gcccgagatc gacatgtttc tcaacgtggc caccttcctg gacccccgct acaagaggct 480
gcccttcctc tccgccttcg agcggcagca ggtggagaat cgcgtggtgg aagaggccaa 540
gggctgctgg acaaggtcaa agacggcggc taccggccgg ctgaggacaa gatcttcccg 600
gtgcccgagg agcctcccgt caagaagctc atgcggacat ccacgccgcc gcccgccagc 660
gtcatcaaca acatgctggc cgagatcttc tgccagacag gcggcgtgga ggaccaggaa 720
gagtggcatg cccaggtggt ggaggagctg agcaacttca gtcccagaa ggtgcttggc 780
ctcaacgaag acccctcaa gtggtggtca gaccgcctgg ccctcttccc cctgctgccc 840
aaggtgctgc agaagtactg gtgcgtgacg gccaccgcgt cgcccctgag cgtctcttcg 900
gatccgccgc caacgtggtc agcgccaaga ggaaccggct ggctcccgcg cacgtggaac 960
gagcaggtgt ttctgtatga raacgcccgg agtggggcag aggcggaacc cgaggaccag 1020
gacgargggg artggggcct ggaccaggag caggtgttct ccttggggga tggcgtcasg 1080
gcggtttctt tggcattagg gacagcagct tcctgtagcg aggaagcgtg ttgtcttaca 1140
agtcatcccc gcagcagccc attggatgct ttgctgtaaa tacttacccg gtcagcttgg 1200
ttttgaacct cagagaccat ccactgtctt tgcacctag aaggtggaaa aaggaaagag 1260
attcgagaag tgagagaggg tcg                                  1283
```

<210> 460
<211> 435
<212> DNA
<213> Homo sapiens

```
<220>
<221> misc feature
<222> (431)
<223> n equals a,t,g, or c

<400> 460
tcgacccacg cgtccgcaag tacaaaaacc ttaagtttca tttgtagggc cacagatcat 60
agaatttcaa atgacatatt acatagtttg taaatgtata tatttggttg actgaaactt 120
aatcataatt tagttcttaa aactatgtgg cttgaagtgg caagtagcaa gtactgattt 180
taccagattc aagttgattt ttaaaagtaa ccattggaga aatcgttata catttgtttg 240
caggattttt acctcctata actccaccag aaaagttttt tctttcccag ctgatgctgg 300
cacccccacg ggaactcttc aaaaagacgc ctcgccagat tgcactgatg gacgttggaa 360
acatgggcca gtctgtggam attagtgggc tcagttagcc ttggccggta aggrggaayc 420
agtgtttggg nattc                                                  435

<210> 461
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<400> 461
gcgwccgagc cttyggagct cccagcgtcc cctcgggttc aatcctccag gacctgtgtc 60
tgatgcctgc atgtgggtac ctgggctcca tcaggttcta gatcggcctc cgccctccac 120
tttcagggct ccaggccnag cttctcatgt ctgtggggag ggtctccaga gccttggtct 180
gtggctgagc tgtggaactt gaaggcctct ctgcatcttg tcactcgtgg cccctgcacc 240
ttgggtcatg acctgcttta tgtggcaacc ctgtgacagc tgctaagtcc tagaaaacac 300
gtaacaggac gtgaggtgcc ctctgcgccg tgtgggcgcg tgcggggaga cccgggcccc 360
aggacgtgag gtgccctctg cgccgtgcgg gcgcgtgcgg ggagacccgg gccacatgcg 420
agcggggccc cgagacattc tgcactcggg aattgcgggg attatcaaat cccgcttcag 480
tgggaaacgt gagcgaaacc caaggtgagt ggccgcagcc tttcgtcacg tgctctcccg 540
catgtcctaa gtragggctc aggctgagct gccgttgccg agagccttgt gtctgcttcg 600
ggtgtctgca ctgtgagtgg ctccgtgctr gcgtccgcac cagccgcttg gggc        654

<210> 462
<211> 2245
<212> DNA
<213> Homo sapiens

<400> 462
aattacccgg tcgacccacg cgtccattgt cccaatgtgc ccggctcagc ctgaggaagc 60
agtcgctctt ccaggagcca ggtcccgatg tggaggccta gcgccgagga acagtgctgg 120
gcacccgcct ggcccgccag acccaccctg ccaacatcaa gttgttcctt ctgctccgga 180
gaccctgggg gtgcggccct ggccccctcc accctgctg ggccagagcg ggtgggcagt 240
gtcaaggccc gctgtctccc aggtgcttgc tgggactcgg ggcggctgca cctggctgtc 300
acctgggtgt gctgctgtga ggggtccttg cgtggccccc atccttcccc caatgcagaa 360
```

```
ctccatgggc aggggagctgg ggggacatct cacctccccc atggcacaga gccctccaca 420
cccctggacc agggcatccg ggccctagaa attccacagc tcccgtcctg gccaccctgg 480
aagctcatca ggccaagacc cggacagagc ttcagaggag tgttgagtga cacctgagga 540
tgcggctgca cacactcagc caagggccga gtctcacctg cggtggggtt tcggctctgc 600
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gggactgttc acagttgtca cctgcagacc tgcctctccc tggcctgagg ttcaaaggcc 720
tcatcggatg gtcagtacag tggggtcacc tgttgtttct atacaacagc agggaagggg 780
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gagacggcag ggtctcctct ttgtcctccg gcatcaggaa ggggatggtg tccactcccc 1560
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atctgtgtaa tcaacttcac attattcaag ttacaaatca ctgtgtccat agaaaaactg 1920
tgctggtatt tgctggacaa agggttgggc ccctttttatt tttacctgcc acccagcatc 1980
tcccccacct gccccttctg ggtgacacag ccggtaaacg gaatcacgta tggttctttc 2040
tgtgggtctg tggcacagca ggaagagccc sgtgccgcca gcaccttgtg gaagaccaca 2100
catgggtggt cccacagcat gggaccaggc tggcctgagg gatgcccagt tgtaacaatg 2160
ctgctgtcac tgtctcatta aatatacatc ctttaaaaaa aaaaaaaaaa aaaaaaaaaa 2220
aaaaaaaaaa aaaaaaaaaa aaaaa                                       2245
```

<210> 463
<211> 1280
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1016)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1242)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

<400> 463

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gcgagcaacg ctggagcatc ccgctctggt gccgctgcag ccggcagaga tggttgagct 60
catgttcccg ctgttgctcc tccttctgcc cttccttctg tatatggctg cgccccaaat 120
caggaaaatg ctgtccagtg gggtgtgtac atcaactgtt cagcttcctg ggaaagtagt 180
tgtggtcaca ggagctaata caggtatcgg gaaggagaca gccaaagagc tggctcagag 240
aggagctcga gtatatttag cttgccggga tgtggaaaag ggggaattgg tggccaaaga 300
gatccagacc acgacaggga accagcaggt gttggtgcgg aaactggacc tgtctgatac 360
taagtctatt cgagctttkg ctaagggctt cttagctgag gaaaagcacc tccacgtttg 420
atcaacaatg caggagtgat gatgtgtccg tactcgaaga cagcagatgg ctttgagatg 480
cacataggag tcaaccactt gggtcacttc ctcctaaccc atctgctgct agagaaacta 540
aaggaatcag ccccatcaag gatagtaaat gtgtcttccc tcgcacatca cctgggaagg 600
atccacttcc ataacctgca gggcgagaaa ttctacaatg caggcctggc ctactgtcac 660
agcaagctag ccaacatcct cttcacccag gaactggccc ggagactaaa aggctctggc 720
gttacgacgt attctgtaca ccctggcaca gtccaatctg aactggttcg gcactcatct 780
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cagaccagcc tgcactgtgc cttaacagaa ggtcttgaga ttctaagtgg gaatcatttc 900
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aaggttttca aaacctttag cacaaagaga gcaaaacctt ccagcctggc caacatnggt 1140
gaaaccccac ctctactaaa aattgtgtat atctttgtgt gtcttcctgt ttatgtgttg 1200
ccaagggagt attttcacaa agttcaaaac agccacagta antcagagat ggangcaaac 1260
cagtgccatc cagtctttac 1280
```

<210> 464
<211> 2431
<212> DNA
<213> Homo sapiens

<400> 464

```
gttgtgctga ggccgaggga gtcgccattt tggatggtga accctgaagt cggtgtctgc 60
tgcgttcacg gcaggattcg gttaggagga acagcacagc atgctgggct ctggatttaa 120
agctgagcgc ttaagagtga atttgagatt agtcataaat cgccttaaac tattggagaa 180
aaagaaaacg gaactggccc agaaagcaag gaaggagatt gctgactatc tggctgctgg 240
gaaagatgaa cgagctcgga tccgtgtgga gcacattatc cgggaagact acctcgtgga 300
ggccatggag atcctggagc tgtactgtga cctgctgctg gctcggtttg gccttatcca 360
gtctatgaag gaactagatt ctggtctggc tgaatctgtg tctacattga tctgggctgc 420
tcctcgactc cagtcagaag tggctgagtt gaaaatagtt gctgatcagc tctgtgccaa 480
gtatagcaag gaatatggca agctatgtag gaccaaccag attggaactg tgaatgacag 540
gctaatgcac aagctgagtg tggaagcccc acccaaaatc ctggtggaga gatacctgat 600
tgaaattgca aagaattaca cgtacccta tgaacctgac tctgtggtca tggcagaagc 660
tcctcctggg gtagagacag atcttattga tgttggattc acagatgatg tgaagaaagg 720
aggccctgga agaggaggga gtggtggctt cacagcacca gttggtggac ctgatggaac 780
ggtgccagat gcccatgccc atgcctatgc catctgcaaa tacgccttc tcatatccac 840
```

```
tgccaaaggg accatcagat ttcaatggac tgccaatggg gacttatcag gcctttccca 900
atattcatcc acctcagata ccagcaactc ccccatcgta tgaatctgta gatgacatta 960
atgctgataa gaatatctct tctgcacaga ttgttggtcc tggacccaag ccagaagcct 1020
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catctgtgcc agacacacta ccaactgcat ctgctggtgc cagcacctca gcatctgaag 1140
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tgttttccct gtagcatatt gtgttggatt gcattactgg cagagaaagg acaaggtgcc 1980·
attcaagtcc tagggtgggc ttccagctgc cttaatagaa gtactcaagt ctttttgggta 2040
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ctgtgtagta tacctgtaca tacttgtttc aggcagcctt tctttaatgt tttcagttgg 2340
tttgtattct gtagctcagt agctgctaat aaagttaaag atcctgaaaa aaaaaaaaaa 2400
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                               2431
```

<210> 465
<211> 589
<212> DNA
<213> Homo sapiens

<400> 465
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agggtaacat tcaacaatct atccatctcc ggagaacttg aagctgttca gaatatggta 60
tctactgttg aatgtgctct taaacatgtc tcagattggt tggatgaaac aaataaaggc 120
acaaaaacag agggtgagac agaagtgaag aaagatgagg ccggagaaaa ctattccaag 180
gatcaaggtg gtcggacatt gtgtggtgta atgaggattg gcctggttgc aaaaggcttg 240
ctgattaaag atgatatgga cttggagctg gttttaatgt gcaaagacaa acccacagag 300
accctgttaa atacagtcaa agataatctt cctattcrga ttcagaaact cacagaagag 360
aaatatcaag tggaacaatg tgtaaatgag gcatctatta taattcggaa tacaaaagag 420
cccacgctaa ctttgaaggt gatacttacc tcacctctaa ttagggacga attggagaag 480
aaggatggag aaaatgtttc gatgaaagat cctccggact tattggayag gcagaaatgc 540
ctgaacgcct tggcgtctct tcgacatgcc aaatggtttc aggcaaggg                589
```

<210> 466
<211> 1107
<212> DNA
<213> Homo sapiens

<220>

<221> misc feature
<222> (1099)
<223> n equals a,t,g, or c

<400> 466
gcccaccacg gcctctctcg gcgaggaaac tctggcctcc gcttcctcct cctccgactc 60
ggacaccggc ggagcctccc cgcccccgcg gaagaaaccc cgccagcaac aatagcaaca 120
gcctgaatgt caataacggg gttcccggcg gggcggccgc cgcatcctca gccaccgtcg 180
cagctgcctc cgccaccacc gccgcctcct cttccttggc caccccagaa ctgggcagca 240
gcctcaagaa gaagaagcgg ctctcccagt cagatgagga tgtcattagg ctaataggac 300
agcacttgaa tggcttaggg ctcaaccaga ctgttgatct cctcatgcaa gagtcaggat 360
gtcgtttaga acatccttct gctaccaaat ccgaaatca tgtcatggaa ggagactggg 420
ataaggcaga aaatgacctg aatgaactaa agcctttagt gcattctcct catgctattg 480
tggtaagagg cgcacttgaa atctctcaaa cgttgttggg aataattgtg aggatgaagt 540
ttttgctgct gcagcagaag tacctagaat acctggagga tggcaaggtc ctggaggcac 600
ttcaagttct acgctgtgaa ttgacgccgc tgaaatacaa tacagagcgc attcatgttc 660
ttagtgggta tctgatgtgt agccatgcag aagacctacg tgcaaaagca gaatgggaag 720
gcaaagggac agcttcccga tctaaactat tggataaact tcagacctat ttaccaccat 780
cagtgatgct tcccccacgg cgtttacaga ctctcctgcg gcaggcggtg gaactacaaa 840
gggatcggtg cctatatcac aataccaaac ttgataataa tctagattct gtgtctctgc 900
ttatagacca tgtttgtagt aagaggcagt tcccatgktt atacgcagca gatacttacg 960
gaagcattgt tatgaatttt ggttcctgtt aattcctcct aatgaatggc acttaaactt 1020
agcaaccagg atcccaaaag atacaaccag tttattcata ttggcaattt ttgaatcccc 1080
ggaatacaca ccctgcttna aacttgc 1107

<210> 467
<211> 2197
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (846)
<223> n equals a,t,g, or c

<400> 467
agcccgggtc cacagccgca ctcackcgyc cgctctccgc caccgccacc actgcggcca 60
ccgccaatga aacgcctccc gctcctagtg gttttttcca ctttgttgaa ttgttcctat 120
actcaaaatt gcaccaagac accttgtctc ccaaatgcaa aatgtgaaat acgcaatgga 180
attgaagcct gctattgcaa catgggattt tcaggaaatg gtgtcacaat ttgtgaagat 240
gataatgaat gtggaaattt aactcagtcc tgtggcgaaa atgctaattg cactaacaca 300
gaaggaagtt attattgtat gtgtgtacct ggcttcagat ccagcagtaa ccaagacagg 360
tttatcacta atgatggrac cgtctgtata gaaaatgtgr atgcaaactg ccatttagat 420
aatgtctgta tagctgcaaa tattaataaa actttaacaa aaatcagatc cataaaagaa 480
cctgtggctt tgctacaaga agtctataga aattctgtga cagatctttc accaacagat 540
ataattacat atatagaaat attagctgaa tcatcttcat tactaggtta caagaacaac 600
actatctcag ccaaggacac cctttctaac tcaactctta ctgaatttgt aaaaaccgtg 660
aataattttg ttcaaaggga tacatttgta gtttgggaca agttatctgt gaatcatagg 720
agaacacatc ttacaaaact catgcacact gttgaacaag ctactttaag gatatcccag 780
agcttccaaa agaccacaga gtttgataca aattcaacgg atatagctct caaagtttyc 840
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cctcaaaatt atgataattc tgaagaggag gaaagagtca tatcttcagt aatttcagtc 1080
tcaatgagct caaacccacc cacattatat gaacttgaaa aaataacatt tacattaagt 1140
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cacactgcag ggttgaaacc agaagttagt tgctttgaga acataaggtc ttgtgcaaga 1920
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<210> 468
<211> 3611
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3574)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3581)
<223> n equals a,t,g, or c

<400> 468
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cgtacagtat ctccgacgca cagggttcat agtggcgtca tgcacgcaga ctcctgcaag 120
ttcccctaag ttcttagagg actgctttgc cttttgatct gagagttgca aagttccata 180
aagaatggcc cttgtggata agcacaaagt caagagacag cgattggaca gaatttgtga 240
aggtatccgc ccccagatca tgaacggccc cctgcacccc cgcccctgg tggcgctgct 300
ggacggccgc gactgcactg tggagatgcc catcctgaag gacctggcca ctgtggcctt 360
ctgtgacgcg cagtcgacgc aggaaatcca cgagaaggtt ctaaacgaag ccgtgggcgc 420
catgatgtac cacaccatca ccctcaccag ggaggacctg gagaagttca aggccctgag 480
agtgatcgtg cggataggca gtggctatga caacgtggac atcaaggctg ccggcgagct 540
cggaattgcc gtgtgcaaca tcccgtctgc agccgtggaa gagacagcgg actctaccat 600
ctgccacatc ctcaacctgt accggagaac acgtggctgt accaggcact gcgggaaggc 660
acgcgggttc agagcgtgga gcagatccgc gaggtggcct cgggagcggc ccgcatccgt 720
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tccctgggcg tgcagagggt ctacaccctg caggatttgc tgtatcagag cgactgcgtc 900
tccttgcact gcaatctcaa cgaacataac caccacctca tcaatgactt taccataaag 960
cagatgaggc agggagcatt ccttgtgaac gcagcccgtg gcggcctggt ggacgagaaa 1020
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cctgcagcca tggaagggat catccctgga ggcatcccag tgactcacaa cctcccgaca 1440
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ctaaaagtat ttgcaagtgt caattaagtc caacaattcc aggtatgaaa ctccctctga 3240
gctcttcctt atacttccct tcccaattaa aacaaaacaa gaaaatcatg gtgtcttaaa 3300
gcctttggtt gcctggcctt gtctgctcac tcattttaag gtggtggccc catcccaact 3360
ctaccataaa agtgtctatt aacacaagct cacatggaga gagacggcgc tcatagttac 3420
tgacctatta ccccaggaa caaaaggta gtttaacgtc ttcgtaacca ctcatcaaag 3480
aggcaatgaa atatgcgtga aaaggaggcc aagcgcacac agaatatctt accttcacga 3540
atatgtgtag aagtctggga cacgatgaac ctangagtca naagcataaa aggcaggtcc 3600
tgatcatggt c                                                          3611
                                                                      3611
```

<210> 469

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<211> 520
<212> DNA
<213> Homo sapiens

<400> 469
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caacttcatt cccttacaca cttcagtgac atcagtgctt tgacagggggg aactgttcat 120
cttgatgagg tgaggttgag atatggttgt agtaggatgt gactttcatg ctttcagcaa 180
aatgtatgtg gggcttatta ccatgaggaa cttgggaagg gatgctggct ctcagaacca 240
cagtgccatt ccatcacttc tccatctgtc tccaggatca gaatcctatt aagaagcgga 300
agaagatacc tcagaaaggt cggaagaaaa aaggtcagtg aactgctggg acttaggtga 360
tcaggtgcaa ggtgggggagt acaaattgag tctctttgga tttgccattc tgggtctcac 420
caagccctgt agtatctctt ccatactggg caataatctc cttaggtggg cttttatttt 480
ttgctttcct garctggaaa tcagcatcwt tyacaaattg           520
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<210> 470
<211> 879
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<400> 470
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gtgccagtcc tggtgccagc accacgtcta ccccaggggc cagccctgcc ccccgctccc 120
gaaaacccgg cgccgtcatc gagagctttg tgaatcacgc cccggggggtc ttctcaggga 180
ccttctctgg cacgctacac cccaactgcc aagacagcag cgggcggccg cggcgtgaca 240
tcggcaccat cctgcagatc ctgaacgacc tcctgagcgc cacccggcac taccagggca 300
tgccccttc gctggcccag ctccgctgcc acgcccagtg ctccccggcc tcaccggccc 360
ccgacctggc ccccagaact acctcctgcg agaagctcac ggctgccccc tcagcctccc 420
tgctgcaggg ccagagccag atccgcatgt gcaagccccc gggggaccgg cnttcggcag 480
acagaaaacc gcgccacgct gkcaaggtgg aacggctgca gctgcttctg cacgagaaac 540
ggmtstcgtm gaaaggcccg gcgggaccgc gggtgtccgt accactggtc acccagccgc 600
aaggcggccg cagcgacagc agtagcagcg ggggcggcgg cacccaagcg caggcctccg 660
gcttgggact cgacttcgag gagctccgta tggaagccag aagtcaaccc tgacatcaag 720
tcaaagttcg tggtgggctt aggatctctc ggatcggcca aacttcggcc ctcgcaaccg 780
cagccccagg gcggcggcgg aattcgcaga accccggaaa agaaagttga ccagcccttg 840
caaggagagc gggcaattcc cgcagtcaag acaggttgc           879
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<210> 471
<211> 2557
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c
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<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<400> 471

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gctcgtgccg cgcgggtgga ggaatgccat catggaagga ctcctacctg ttcacggctt 60
gctccaccac caatgtctca gtctacctgt tcccttcatt ccatccactc tgagtggcaa 120
naaaggcccc tgtgtgagca cacaagaact ctgagcactc acagtgttcc caacatatca 180
ggggctactt gtartgcctt cgcttcccct ttcgggtgtc cttactcaca tagacatgcc 240
acctaccctt accgagtgtg ctctgtgaat cctccttcag ccatagaaat gcagttgcga 300
agagtattac atgatattag aaactcactg cagaatcttt cacagtaccc tatgatgaga 360
ggacctgatc ctgctgctgc tccatatagt actcagaaat catctgttct acctctttat 420
gaaaatactt ttcaggagct ccaggtaatg aggcgggctg naaatttgtt tagaacacaa 480
atgatggatt tagaattggc aatgctgcgt caaaaccatg gtttatcatc atatgactga 540
ggaggagagg tttgaagttg atcagctcca gggtttgaga aattcagtcc gaatggaact 600
tcaggacctg gaactgcagc tggaggagcg cctgctgggc ctggaggagc agcttcgtgc 660
tgtgcgcatg ccttcaccct tccgctcctc cgcactcatg ggaatgtgtg gcagtagaag 720
cgctgataac ttgtcatgcc cttctccatt gaatgtaatg gaaccagtca ctgaactgat 780
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aattcctcct ggagaaagct cagaatctgt tttttcccaa gcaacatcag aatcatcttc 900
tgtatgttct ggtccctctc atgctaacag aagaactgga gtaccttcta ctgcctcagt 960
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aacgccaaca gctccttcta gaacaggctc tgtgcagaca cctccagatt tggaaagttc 1080
tgaggaagtt gatgcagctg aaggagcccc agaagttgta ggacctaaat ctgaagtgga 1140
agaagggcat ggaaaactcc catcaatgcc agctgctgag gaaatgcata aaaatgtgga 1200
gcaagatgag ttgcagcaag tcatacggga gattaaagag tctattgttg gggaaatcag 1260
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gcaagattat cattaaacag aaattatagg ttggcatgga tcctattagc tgtgtaatac 1380
tggaattatc aatgatatgc actggtggag gtgttatttg tgctttagaa gatacttgct 1440
gttgagctgg gctactgtat acagtgtaca atgtgtattt cttcaaccat atattttaaa 1500
aagacgtaca tagaaactta ggcactttgc tatttctttt ctaaactatc aaaaactcta 1560
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ggttactaat agcagtagga tagaatttta tgaggttacc tacaactact taatgtactt 1920
acactgtaag ccttgttgct ttacccaaga caaatgtaat tttatcattg cttatgtagt 1980
atttttcttt tggaaatgtg ccttatgtta aacactatgt acttttactt tttgcattgt 2040
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tttaaccagt gaaactttg ttttttatgaa aaaaaggaa aatggtttcc catttggttt 2280
tatatgtgtt aaataaatgt gtaaagtaac caccaaatgt tattagaatt tttcttctag 2340
catttataat ttttttcaact cctattgtgt ttctttgtgt gtgatatttt aatcaaaagt 2400
ggttgagttg ttaacagtgt tctttgaaag aatctctaaa aggcttataa atgtttgaaa 2460
tatcacacaa aggctgattt ctaaaatata tatatattaa aacaataaag tatttatttt 2520
gcctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa           2557
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<210> 472
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (466)
<223> n equals a,t,g, or c

<400> 472
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tggaggtaga gaagggtgcg ttgctgtctg cagtggacac tctctgctgc tgggacggct 120
gaagagggga ggaattggtg cagttgcctg tctcctactt ggagcagatg ctgtctgacc 180
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tgtgtttgga cccctcacag ctgactcaca ggaagtgcta agaagagctt ggcactgggc 360
acagcggctt caggattact gcgccaccca acctgccctt ttccacgtag gttttccagt 420
atccttgata gaccatgaag gcttccaagt ttgcnaagac tcccang            467

<210> 473
<211> 1840
<212> DNA
<213> Homo sapiens

<400> 473
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gtttgagtga cacagcacaa ggccttgatt tcatcatgct tttgctgtgg atgtagtgta 120
gcttgctgaa caggtatgga agctgtcttt gctgttaagt acttctcccg tttgtttatc 180
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cagtattcaa agcctttta aaggaaccaa ctactcaaat gctctacaat gccaaaaata 540
caatactcct gcaggttttc ccaagcaagg ccaaaacaat caaaatctga cagaaaaaca 600
cagctgttca gctctggaat ctgatgatag gctacttttt aatgtcagga catccttcta 660
aacttccact tacagtgtca catgtaagca tgaaggctgg ctcgttggtg agccattgct 720
ttgttttttag gaagacagtt atgaatgcca tggacaatct cagtacatgt tgtttgttat 780
gattttattc acgctaaagg aatgggtatt aaaattaagt gcatataata tagaattcag 840
tttcaagtct gaagttagcg taaatttaga ttcttcagac taacataaaa catgattttg 900
agaagttaaa taggaagatg ccttttttag aagtttagca tatttagttt atctcccaaa 960
tcttgcttag aaatcaaatg tatataagag aagttagtta cagagctaga ttgattaact 1020
acttctttaa tgaagatttg ctatgaattt gtttactctt tcataccacc ttcagatagc 1080
tagtcagttc agcaggagca gagaccaggt tagcacgcgg atggggtgta attcagtgtt 1140
tttgtgttgt acagcctgag aaatgccagt ggcctgacag cagcagacat tgcacaaacc 1200
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cagggtttcc aagagtgtgc ccagtttctc ttgaacctcc agaattgtca tctgaaccat 1260
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gttgtccagt gtcttttaa aaatgttata ctataatttg mmtatcttgg caagtttgt 1740
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<210> 474
<211> 1258
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (528)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (726)
<223> n equals a,t,g, or c

<400> 474
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ctcccgagct ggggggtgtgg gcctaggaaa ggctgcttcg ccgctgtgtt cggagagctc 120
tggatactgc ggggcttttc cgcggaggag cgcccgccgg taggttggcc ccgaaccgtg 180
ggggcggcga cggccgagtg ccaatttgac tctgtgcacc aaggtccccg cgccccggaa 240
cgggcgacgc cgcgcccca tcagagccgc rggcatctgc atctgggacc gacctcctgg 300
gctggctgat caaagaggaa gcagcagcaa tgtctgctgt ggggrctgca actccatacc 360
tgcatcatcc tggtgatagt cacagtggcc gagtgagttt cttgggggcc cagcttcctc 420
cagaggtggc agcaatggcc cggctactag gggacctaga cakgagcacg ttcagaaagt 480
tgctgaagtt tgtggtcagc agcctgcagg gggaggactg ccgagagntg ctgcagcgtc 540
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atgttgctga cttttcggtgg cgggtggatg tagcaatctc caccagtgcc ctggctcgct 840
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aggtccccac agccaagttc caggagctgc ggtacagcgt ggccctggtc ctaaaggaga 960
tggcagatct ggagaagagg tgtgagcgca gactgcagga ctgacccctc acttgaccag 1020
tcccattcag atccggcttg gacaggcacc tgagatggtg ccaaagtgca gctgactctt 1080
```

```
cccacgacag ccctgccctt cccatgaggc aggctcttca gtgagtgttt gaacgtaatt 1140
atgtagtttt ctgtttaatt gaaaaagaga gctatgcctt tttttctttt tggaagtaaa 1200
gcagctaaaa acawraaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa   1258
```

<210> 475
<211> 4231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4184)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4223)
<223> n equals a,t,g, or c

<400> 475

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cagaacatgt taatggaaat ggtactgaag agcccatgga tactacttct gcagttatcc 120
attcagaaaa ttttcagaca ttgcttgatg ctggtttacc acagaaagtt gctgaaaaac 180
tagatgaaat ttacgttgca gggctagttg cacatagtga tttagatgaa agagctattg 240
aagctttaaa agaattcaat gaagacggtg cattggcagt tcttcaacag tttaaagaca 300
gtgatctctc tcatgttcag aacaaaagtg ccttttttatg tggagtcatg aagacttaca 360
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gaggttatgc gtttgtcact ttttgtacaa aagaagcagc tcaggaggct gttaaactgt 720
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gcaaccttgc caatactgta acagaagaga ttttagaaaa ggcatttagt cagtttggga 1140
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gtgctgtcaa ggctatggaa gaaatgaatg caaagactt ggagggagaa aatattgaaa 1260
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caaaaaatca aatgtatgac gattactact attatggtcc acctcatatg cccccctccaa 1380
caagaggtcg agggcgtgga ggtagaggtg gttatggata tcctccagat tattatggat 1440
atgaagatta ttatgattat tatggttatg attaccataa ctatcgtggt ggatatgaag 1500
atccatacta tggttatgaa gattttcaag ttggagctag aggaaggggt ggtagaggag 1560
caaggggtgc tgctccatcc agaggtcgtg gggctgctcc tccccgcggt agagccggtt 1620
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tggttatact taaagaaggg gtaatgtaaa catggtggat ggaaatatat accccnccca 4140
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<210> 476
<211> 691
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (689)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (691)
<223> n equals a,t,g, or c

<400> 476
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gcagagggag cgtcaaggcc ctgtgctgct gtccctgggg gccagagggg ttgcccagca 120
tgcccactgg caggagagag ggaactgacc cacttgctcc taccagcttc tgaaggtgac 180
actgagcccc aggtgacgcc gcaccaccaa agaaggtgct tgtgtttgtc agacaaatac 240
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gacaggcagc tcaccagggt ggacaaatcg ccagagatgt ggtgcattgt cctgttttca 360
cttttggcat gggtttatgc tgagcctacc atgtatgggg agatcctgtc ccctaactat 420
cctcaggcat atcccagtga ggtagagaaa tcttgggaca tagaagttcc tgaagggtat 480
gggattcacc tctacttcac ccatctggac attgagctgt cagagaactg tgcgtatgac 540
tcagtgcaga taatctcagg agacactgaa gaagggaggc tctgtkgaca raggagcagt 600
aacaatccca mtctccaatt gtggaagagt tccaagtccc atacaacaaa ctccaagggt 660
ggaaatcccc ttttttttt aaaaaaaang n                               691
```

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<210> 477
<211> 1418
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<222> (1127)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1143)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1289)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1319)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1399)
<223> n equals a,t,g, or c


<220>
<221> misc feature
<222> (1400)
<223> n equals a,t,g, or c


<400> 477
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ggcaaacagg cagaggcggg cgggccctgg cancccagtg gcctgactgc tgccccacag 120
gtctccgaag ccaaggccca ctccgcgacg tccaggactt ctggatcagc ctcccaggga 180
cactgtgcag tgagaagatg gccctgagca ctgccagtga tgaccgctgc tggaacggga 240
tggccagagg ccggtkacct ccccgaggtc atgggtgacg gcctggccaa ccagatcaac 300
aaccccgagg tggaggtgga catcaccaag ccggacatga ccatccggca gcagatcatg 360
cagctgaaga tcatgaccaa ccggctgcgc agcctnacaa cggcaacgac gtggacttcc 420
aggacgccak tnacgacggc agcggctcgg gcagcggtga tggctgtctg gatgacctct 480
gcrgccggaa ggtcagcagg aagagctcca gctcccggac gcccttgacc catgccctcc 540
caggcctgtc agagcaggaa ggacagaaga cctcggctgc cagctgcccc cagcccccga 600
ccttcctcct gccctcctc ctcttcctgg cccttacagt agccaggccc cggtggcggt 660
aactgcccca aggccccagg dacagaggcc aaggactgac tttgccaaaa atacaacaca 720
gacgatattt aattcacctc agcctggaga ggctggggt gggacaggga gggccggcgg 780
ctctgagcag gggcaggcgc agaggtccca gccccaggcc tggcctcgcc tgcctttctg 840
cctttaatt ttgtatgagg tcctcaggtc agctgggagc cagtgtgccc aaaagccatg 900
tatttcaggg acctcagggg cacctccggc tgcctagccc tcccccage tccctgcacc 960
gccgcagaag cagcccctcg aggcctacag aggaggcctc aaagcaaccc gctggagccc 1020
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agccagccct ggcccacccc ccagcctcca gagaagcccc gcacggntgt ctgggtgtcc 1140
gcnatccagg gtctggmaga rcytctgaga tgatgcatga tgcccttccc tcagcgcagg 1200
cttgaagaag cccggcccca ccttccttgc gcccttgagg gggccccaag cggtctgcaa 1260
ggggtggacg cctgagaaca ggaaccaant gcttgaagga agtctgaagg acttggccnt 1320
```

```
cccacaagaa ccttgcagtg aaggggggccc cttccattgc cgcaagaatg aaggggggcca 1380
acttggaccc caaccttgnn gctttctggc ttggaagg                          1418
```

```
<210> 478
<211> 1237
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1232)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1236)
<223> n equals a,t,g, or c

<400> 478
gcttgccctt ctcaaacatg gccgccacgg cgcctctgga agggaaccgc tctgggcccc 60
gcctttgatc tcgttggtgg ggctggggga tgagagctgc accgcgcggg acaagtcgcc 120
ggcggcgccc gacggagcag aasagagagc atggagctgg agaggatcgt cagtgcagcc 180
ctccttgcct ttgtccagac acacctcccg gaggccgacc tcagtggctt ggatgaggtc 240
atcttctcct atgtgcttgg ggtcctggag gacctgggcc cctcgggcca tcagaggaga 300
acttcgatat ggaggctttc actgagatga tggaggccta tgtgcctggc ttcgcccaca 360
tccccagggg cacaataggg gacatgatgc agaagctctc agggcagctg agcgatgcca 420
ggaacaaaga gaacctgcaa ccgcagagct ctggtgtcca aggtcaggtg cccatctccc 480
cagagccccct gcagcggccc gaaatgctca aagaagagac taggtcttcg gctgctgctg 540
ctgcagacac ccaagatgag gcaactggcg ctgaggagga gcttctgcca ggggtggatg 600
tactcctgga ggtgttccct acctgttcgg tggagcaggc ccagtgggtg ctggccaaag 660
ctcgggggga cttggaagaa gctgtgcaga tgctggtaga gggaaaggaa gaggggcctg 720
cagcctggga gggccccaac caggacctgc ccagacgcct cagaggcccc caaaaggatg 780
agctgaagtc cttcatcctg cagaagtaca tgatggtgga tagcgcagag gatcagaaga 840
ttcaccggcc catggctccc aaggaggccc ccaagaagct gatccgatac atcgacaacc 900
aggtagtgag caccaaaggg gagcgattca agatgtgcg gaaccctgag gccgaggaga 960
tgaaggccac atacatcaac ctcaagccag ccagaaagta ccgcttccat tgaggcactc 1020
gccggactct gcccgagcct tctaggctca gatcccagag ggatgcagga gccctatacc 1080
cctacacagg ggcccccctaa ctcctgtccc ccttctctac tcctttgctc catagtgtta 1140
acctactctc ggagctgcct ccatgggcac agtaaaggtg gcccaaggaa aaaaaaaaaa 1200
aaaaaaaaaa aaaaaaaaaa tttgggggggg gncccng                         1237
```

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<210> 479
<211> 1098
<212> DNA
<213> Homo sapiens

<400> 479
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gcagggcgcg cgctgcacgc acagtactag gtcaggtggt gctcccgggt gaggagctgc 120
tcctgccgga acaggaggac gcggaaggcc ctggggggtgc agtggagcga ccgttgagcc 180
tgaatgctag agcgtgctcg cgggtgcgcg ttgtatgcgg tccgggcctt cggcgctgtg 240
```

```
gggaccgcct gctggtcacc aagtgcggcc gcctccgtca caaggagccc ggcagtggca 300
gcggcggcgg tgtttactgg gtggactctc agcagaagcg gtatgttcca gtaaaaggag 360
accatgtgat tggcatagtg acagctaaat ctggagatat attcaaagtt gatgttggag 420
ggagtgagcc agcttctttg tcttacttgt catttgaagg tgcaactaaa agaaacagac 480
caaatgtgca ggttggagat ctcatctatg gccartttgt ggttgctaat aaagacatgg 540
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aggatggtct gctttttaaa gtgactctgg gcttaattag aaagctatta gctccagatt 660
gtgaaatcat acaggaagtg ggaaaactct atccactgga gatagtattt ggaatgaatg 720
gaagaatatg ggttaaggca aaaaccatcc agcagacttt aattttggca aacattttag 780
aagcttgtga acacatgacg tcagatcaaa gaaaacagat cttctccaga ttggcagaaa 840
gttgatatag gtggactttt ttacaggtca gttgaggcaa aaaactatgg gtttttttcag 900
gtgaacctcc cccatttaaa tactcagaag ataaggtgtg aatgtatgta ttattagagt 960
ccgaaagtat ttttataagt tactggtttt cacccacgct tttgtgggag agaaaatcat 1020
tgcaaaatca tttttttttgt tcggtacaat aaagtttact aaaaaacaaa aaaaaraaaa 1080
aaaaaaaat ggcggccg                                                1098
                                                                  1098
```

<210> 480
<211> 684
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<400> 480
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gcggaacgcc ggaaaccgca gatccacgga ggtcaggscc gcggagagct gtagttcccc 120
ggaaccggaa gtgatggcgg acytccggaa accgtagatt ccggcggtc ggagccgccg 180
ggagctgtag ttctcccgcg gctcagagaa gtaggcagag agcggacctg gcggccgggc 240
agcatggcgg ggctggagct cttgtcggac cagggctacc gggtggacgg gcggcgcgcc 300
ggggagctgc gcaagatcca ggcgcggatg ggcgtgttcg cgcaggctga cggctcggcc 360
tacattgagc agggcaacac caaggcactg gctgtggtct acggcccgca cgaggcgagt 420
gggckcscgg gatgggggaat cgtgtggccg tgggagctgc ggggcagccg ggctgagcgc 480
tggctcgggg acttgagggg caaggccgcg cgcctcatct acacagcgat gctcagcacc 540
gcatctcact cggagtaaac gcaagtcctt agtgtgctgc gcggtggtcc tgcctttctc 600
atcggcctct gtccctgcgc cctccttcct ctttgcggct cttcaacgtg ctaggcactc 660
ccccactcgc tccctctcct ttcc                                        684
                                                                  684
```

<210> 481
<211> 2995
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1760)
<223> n equals a,t,g, or c

<400> 481

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acagtttata ggcaagcaat aaacagcaag atgtttgagg tggatatgaa aattgctgca  120
atgcatgtaa aaagaaagca actccatcaa ctactaccta atcatgtgct tcagaaaaag  180
aaaaagcatt caacagaagg tgtcaaattg acagctctca atgacagcag cctcgacttg  240
tctatggaca gtgataacag catgtctgtg ccttcaccta ctagtgctac gaagaccagt  300
ccattgaaca gttctggcag ctctcagggc agaaacagtc ctgctccagc tgtaacagca  360
gcatctgtga ccaacataca ggctactgaa gtttctgtgc cacaagtaaa ttccagtgaa  420
agctcagggg gtacatcgag tgaaagcatt cctcaaactg ccacacaacc agccatttct  480
ccaccaccaa agcctacggt ctccagagtt gtttcttcaa cacgtctggt aaacccacca  540
cctagatctt caggaaatgc agcaacttca ggaaatgcag caacaaaaat acctactcct  600
atagtaggag tcaagaggac atcctcacct cataaagaag agagtcccaa gaaaaccaaa  660
acagaagagg atgaaacaag tgaagatgct aactgtcttg ctttgagtgg acatgataaa  720
acagaagcaa aggaacaact tgatacagag acaagtacaa ctcaatcaga aactattcag  780
acagcggctt ctctgttggc ctctcagaaa acatccagta cagacctttc tgatatccct  840
gctctccctg caaatcctat tcctgttatc aagaattcaa taaaactgag attgaatcgg  900
taaaaacaac ctcaggggtc cataaacaat atctgccaac tcaacctgtt gtcttcaaat  960
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tgcttgtatg cacaaggtan gacttacttc gtaagaaaca aaatgccagt attttcttaa 1800
gccatgatgt gaaaccaatg accctgtgac cacatggcac agaacactaa attttggtcc 1860
catggctgaa acttgagggt gactaaaagt aatgcctgtg aaacatgata tctatctggg 1920
atggccattt gatctctaaa aggaattttg tacactccac agaactccta tctatagtaa 1980
aattgatttt cagtttttaaa tgtgggcaaa aaggcatttt ctccaagatt ttaaaactaa 2040
ttcttatttt taaatggttt accaaaattt gtcagtacat tttacgtgta gaagcatttt 2100
aaaaatcatt tctagcaagc acttgacatc tagtcagctc tctactcctt tattttgttt 2160
tatcaaaaga ttaagagctc ctttctttga ataaaataat ttctcataat taagcagtag 2220
aagatctatc ttcacaaagt atgagggatg ccagatgttg ataaacttac tctttctgaa 2280
tctggacaaa gtcgacttaa cagatttttc tgatgagcat gttttatgaa tcctccattg 2340
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ctatccttct aaattaattt tctgaagttg gagtgtagtc ttttcccct taggctatgc 2460
attaatcgaa gctttctttt caccatgact ttataatgtc tagtaaacaa tatttctact 2520
tcccacatct ttgctttaca cagtcacctt gcccttcctt ccaccaccga agaaaaaaga 2580
tggtcatact aacaggtgaa atgtacaagg tgtctgtgtg ttttgtgtag cttcagagtt 2640
agattgaaat taccaggcac agatttagtc ttgtcatttt gtttacacat tggggaaaac 2700
aattcagttt attaaacgtt tcatgtaact gcacccaagt tttgccaagc tggaaacttg 2760
gacctttct gtgtagtgac ttttttaatta tagttttcat aacctggaga tcagactgtt 2820
gctttcgcat gatgtatgta gtgtctcatg actggagttt gctttgtttt atagtatctg 2880
tactccttgt attttttcaag agctattttg taaacagatg atgtatttct ccattgaaaa 2940
cacaataaaa aaaaaacagc acaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa        2995
```

<210> 482
<211> 1248
<212> DNA
<213> Homo sapiens

<400> 482
```
gcagacttaa tgtcaagaat gaaaaaaaaa tagttcatca ggatgtaacc tgagattcac 60
ctctgcatct ttaccaaaag aatgcacgct tgaagaatgt ggaattcctg cttgtaaacc 120
gtatacactg tgggacgaga caccaatgtc ttggttacat caaaagaagg ctagcaatgt 180
gtgccagaag actcgggagg accaggaag cagtgaaaat gatgagagat ttaatgaagg 240
agttcccct tctgagtatg ttcaatatcc atgaaaacct tttagaagcc cttctggaac 300
tacaagcata tgctgatgtt caggcagtct tagcaaagta tgatgatata agcttaccaa 360
agtcagcaac aatatgctac acagctgctt tgctcaaagc aagagctgtc tctgacaaat 420
tctctyctga ggctgcatct cggcgggggc tgagcacagc agagatgaat gcagtagagg 480
ccattcatag agctgtggaa ttcaatcctc atgtgccaaa atacctacta gaaatgaaaa 540
gcttaatcct accccagaa catatyctga agagaggrga cagkgaagca atagcatatg 600
cattctttca tcttgcacac tggaagagag tggaaggggc tttgaatctt ttgcattgta 660
cgtgggaagg cacttttcgg atgatccctt atcccttgga aaagggcac ctattttatc 720
cttacccaat ctgtacagaa acagcagacc gagagctgct tccatctttc catgaagtct 780
cagtttaccc aaagaaggag cttcccttct ttattctctt tactgctgga ttatgttcct 840
tcacagccat gctggccctc ctgacacatc agttcccgga acttatgggg gtcttcgcaa 900
aagctttcct cagcactttg tttgcccct taaactttgt catggagaaa gtggagagca 960
tcctcccatc cagtctgtgg caccagctaa cacggatctg agagaagccc tgtcctccac 1020
tcacctcacc cgccgctgcc accatctcct ctgtgccaac tccttgtgga ccgcaagaaa 1080
gcatgacttt gaaaaaggga agccattccg agattttaaa atgttcatgg actattccat 1140
attaaaagct gtttttgttg tacaaaattc actgatgttc agttctattt tattttgcct 1200
tcagaaaaga agaaagtcaa aaataaaact tttgtgtatt acagcaaa      1248
```

<210> 483
<211> 1862
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<400> 483
```
gcagcgaccg ctttggtcgg ctgtgtagac tgttgggtag gctgcgtgct agcttcggcg 60
cggatccctg ggcgtccgta cgtcggagtc cttcgtcctc cagggtccct gttctttgcg 120
ccancgggaa ccactatctc tgcactcctg gggttttgtt acatggctgc tttcctcaaa 180
atgagtgtta gtgtcaattt cttcagacct ttcaccaggt ttttggtgcc atttaccctt 240
cataggaaga gaaataactt aacaatttg cagagataca tgtcttccaa aataccagct 300
gttacttatc ctaaaaatga gagtacaccc ccttctgaag agctagagtt ggataagtgg 360
aaaactacca tgaaatctag tgtgcaagaa gaatgtgttt caacaatctc aagcagtaag 420
gatgaagatc ctctagctgc caccagagag ttcattgaga tgtggagatt gcttggcaga 480
gaagtaccag aacacatcac tgaagaagag ctcaaaaccc ttatggaatg tgtttctaac 540
acagcaaaaa aaaatatttt aaaatattta tatacgaagg aaaaagtgaa aaaagctagg 600
caaataaaaa aggaaatgaa agcagcagca agggaagaag caaaaaatat caagctgcta 660
gaaaccactg aggaagataa acagaaaaac tttctatttt tacgactttg ggataggaat 720
```

```
atggacatag caatgggctg gaagggtgcc caggccatgc agtttggaca acctttggtt 780
tttgacatgg cttacgaaaa ttatatgaaa cgaaaagaat tgcagaatac tgtttcccag 840
cttttagaaa gtgaaggatg gaacagaaga aatgttgatc ctttccatat ttatttctgc 900
aatctaaaaa tagatggtgc tttgccagag agttagttaa acggtatcaa gaaaaatggg 960
acaaattgct tttaacatca acagaaaagt ctcatgtaga tttatttcca aaggacagta 1020
ttatctattt aactgcagat tctcccaatg ttatgactac tttcaggcat gacaaagttt 1080
atgtaattgg gtcttttgtt gataagagta tgcagccagg cacatcccta gccaaggcaa 1140
aacggctgaa cctggcaact gaatgccttc cattagataa atatttacaa tgggaaattg 1200
gtaacaaaaa tctcacctta gatcaaatga tacgtatttt gttatgtctg aaaaacaatg 1260
gtaattggca agaggctctg caattcgttc caagagaaa acatactggt tttctggaga 1320
tttctcagca ttctcaagag tttatcaaca gactaaagaa ggcaaagact taattcattt 1380
tcaaaaggtt ctctgaatgt gcacagaaca cgtggctcaa atgagaacat ttgatggctt 1440
aaaaagtaaa tgcgttagaa atacagttct gttaatgtat ttcttcccaa acaattcatt 1500
tttctcttct aaaggtagtc tttcccaact gactgtaggg ttgtgtcttt tcccaattaa 1560
atatctgcag aactttggga ttatactttg tttactgtag aaagataata aaaagagttg 1620
tccaagattg ttgaacagaa taatctttat cccagttaaa tagttgtacc attggtagac 1680
ttttttatgg aggttcctag agggtggtgc cctggggtgg gcttggaagc tctgcacccc 1740
ttcccccata gctttccccg tgcatctctt tgtctgtatg ttttgtaata tcttttacag 1800
taaactggta aatgtgtttc cttcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860
aa                                                                   1862
```

```
<210> 484
<211> 1664
<212> DNA
<213> Homo sapiens
```

```
<400> 484
tttaatgtgc aggctattca agttcaatag taaaagctca aaaatgaatg ttctactcca 60
tgctgaagga gctgaaastg ccttcttcat attttgcact ttctggtagt tcccctgttt 120
tttctaattc cctaaaattg tgtgggtgga gtggagccct gcagttgggg ggtaacatgg 180
accactgatt ttgccctttg accctgcaca atgacctttg catcagccaa actcattgcc 240
atgacaactc tttgtactgt gtccgtgcca cagatctgtt ggtcacattg ttaatagtaa 300
aggggacaag ttggagacgg tcaattttta cattttttgt tgcaattttt tcttcaatgg 360
ttgtaagtag tttttttttt ttttaataat aaaagggttc actagttaat actctagaaa 420
tatctgtgtg ttgcaattca aatgtatgtt gagattgtga aaagcgcttc agtgccacta 480
gcttaccggt acactagact aagcccttga tgacttattg catgatacag taccaggaac 540
aacaggtggc ctaaatacat gaaaagcagt gtaagctagt gacactaaag ccagtcttgt 600
attactgtat ttttgacaga atggttttga aaactgtgct acagggactg atgtggcaaa 660
tatatctctt tatgcagaag gaagtctttt ttttttcttt ttttttttt aagaagtatg 720
gcttttttatg catccttcat cgagggcatt gaagttgcat ggactgataa aagttgatgc 780
aaaacaagaa agaaacaaac aaaaaaaaaa aaccagcaaa atgtttacca aaaaactcaa 840
acaaatgagc agtgcctgtt caatttcaca gtctctgttg agttcagttg taaatatgtt 900
tcaaatgaca ttttcttgga aaaaaaatct ctacaacatt gtagaatgtg aggggtaact 960
acatcccagg cataggtttc tcaaagctgc agtagattat gtcttcatca agctgttaat 1020
ttgtgcttat atcatataga acttttagca tcctgggaag agctgccccc acctcaatga 1080
tatttctctg agaacaactt ttgtaggact gtgtgtttct ttagatacat ttagtacaac 1140
tgtaggtgac gagtagtcag ttattgcttg ctagctacac accaggggttg atccatttta 1200
aaacttttgg cattttgtcc tcatgggcca taaatacaga accttgtatt ttaattaaat 1260
tttttttacaa aaggaggcac atgcacaatc tccatgtaac aaacctttag cagtaggatg 1320
tattatacga cagttactta atttctagag ttcaggcctc tgggatcaac cccagactgg 1380
gccagaatgt tagtgaaggt tttattgtgc ccggttggag gataacgttc tttgggtact 1440
```

```
ttttgtgggt tgcaaatgaa ctcaattgcc acaagtttta aactggtgta aatcaagctt 1500
gacttaatgt gattgttact gttatatcca gcctatactg ctagcagctg ctcatactgc 1560
agtcaattac tggaagcgga tatatttcct atgcaaaaac tgtttaaaca ataaaatgag 1620
ctatgctaca gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa           1664
```

<210> 485
<211> 969
<212> DNA
<213> Homo sapiens

<400> 485

```
ggggggccgcg gggctgcggg gcggggaaag ccgagggcgt gggtgggcgc tccgggtcag 60
cagagacggc tgtccgcccg ctgggcgccg ctgcggattt ggtaaatggg aggtgacgct 120
ggtgaccgag agccggggcc cgctgccagg agcctgggcg agggccaggc tggctttgct 180
acagctgacc actccggtca ggagagagag actgagaagg ctatggatcg actagcccgt 240
ggaacacaga gcattcctaa tgacagtcct gcccgggggtg agggcaccca ttctgaagag 300
gaaggctttg ccatggatga ggaggactct gatggagaac tgaatacctg ggagctgtca 360
gaagggacaa actgtccacc caaggaacag cctggcgatc tttttaatga ggactgggac 420
tcggagttga aagcagatca agggaatcca tatgatgctg acgacatcca ggagagcatt 480
tctcaagagc ttaaaccttg ggtgtgctgt gccccacaag agacatgat ctatgacccc 540
agctggcacc atccgcctcc actgataccc tattattcca agatggtctt tgaaacagga 600
cagtttgacg atgctgaaga ttgagtgtgg agctttctgc cttgtaggtg ggcgggcctc 660
cacgtcaaga tctcttttcc tgtcttggag gtgaaaagtc atatctgaga aaatgtttgc 720
agtgacccct agtctggggt acacagacca gtgttcctta ttgacagtgt tcaataaggc 780
cccgtcattc tcgccagtct gttgttgttc ttaatgggct cctccttgaa atgtgtgtgt 840
gtttgtgtca agaggagttg tgttctttgt aaataaaggt taaaaagaga aaaaaaaaa 900
aaaaaaaat ttttgcccca aagggggggcg gttaaaagat aacggcggcg gggatttgtg 960
agaatatgc                                                      969
```

<210> 486
<211> 2572
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (823)
<223> n equals a,t,g, or c

<400> 486

```
tgcaagaagc agcgactgca gcagcagcag cagcagcggc ggtggcagca gcagcagcag 60
cggcggcagc agcagcagca gcggaggcac cggtggcagc agcagcatca ccagcaacaa 120
caacaamaaa aaatcctcat caaatcctca cctaagcttt cagtgtatcc agatccacat 180
cttcactcaa gccaggagag ggaaagagga aagggggggca ggaaaaaaaa aaaacccaac 240
aacttagcgg aaacttctca gagaatgctc caaaactcag cagtgcttct ggtgctggtg 300
atcagtgctt ctgcaaccca tgaggcggag cagaatgact ctgtgagccc caggaaatcc 360
cgagtggcgg ctcaaaactc agctgaagtg gttcgttgcc tcaacagtgc tctacaggtc 420
ggctgcgggg cttttgcatg cctggaaaac tccacctgtg acacagatgg gatgtatgac 480
atctgtaaat ccttcttgta cagcgctgct aaatttgaca ctcagggaaa agcattcgtc 540
aaagagagct taaatgcat cgccaacggg gtcacctcca aggtcttcct cgccattcgg 600
aggtgctcca ctttccaaag gatgattgct gaggtgcagg aagagtgcta cagcaagctg 660
```

```
aatgtgtgca gcatcgccaa gcggaaccct gaagccatca ctgaggtcgt ccagctgccc 720
aatcacttct ccaacagata ctataacaga cttgtccgaa gcctgctgga atgtgatgaa 780
gacacagtca gcacaatcag agacagcctg atggagraaa ttngggccta acatggccag 840
cctcttccac atcctgcaga cagaccactg tgcccaaaca cacccacgag ctgacttcaa 900
caggagacgc accaatgagc cgcagaagct gaaagtcctc ctcaggaacc tccgaggtga 960
ggaggactct ccctcccaca tcaaacgcac atcccatgag agtgcataac cagggagagg 1020
ttattcacaa cctcaccaaa ctagtatcat tttaggggtg ttgacacacc arttttgagt 1080
gtactgtgcc tggtttgatt tttttaaagt agttcctatt ttctatcccc cttaaagaaa 1140
attgcatgaa actaggcttc tgtaatcaat atcccaacat tctgcaatgg cagcattccc 1200
accaacaaaa tccatgtgac cattctgcct ctcctcagga gaaagtaccc tcttttacca 1260
acttcctctg ccatgttttt cccctgctcc cctgagacca cccccaaaca caaaacattc 1320
atgtaactct ccagccattg taatttgaag atgtggatcc ctttagaacg gttgccccag 1380
tagagttagc tgataaggaa actttatttta aatgcatgtc ttaaatgctc ataaagatgt 1440
taaatggaat tcgtgttatg aatctgtgct ggccatggac gaatatgaat gtcacatttg 1500
aattcttgat ctctaatgag ctagtgtctt atggtcttga tcctccaatg tctaattttc 1560
tttccgacac atttaccaaa ttgcttgagc ctggctgtcc aaccagactt tgagcctgca 1620
tcttcttgca tctaatgaaa aacaaaaagc taacatcttt acgtactgta actgctcaga 1680
gctttaaaag tatctttaac aattgtctta aaaccagaga atcttaaggt ctaactgtgg 1740
aatataaata gctgaaaact aatgtactgt acataaattc cagaggactc tgcttaaaca 1800
aagcagtata taataacttt attgcatata gatttagttt tgtaacttag ctttattttt 1860
ctttttcctgg gaatggaata actatctcac ttccagatat ccacataaat gctccttgtg 1920
gcctttttta taactaaggg ggtagaagta gttttaattc aacatcaaaa cttaagatgg 1980
gcctgtatga gacaggaaaa accaacaggt ttatctgaag gaccccaggt aagatgttaa 2040
tctcccagcc cacctcaacc cagaggctac tcttgactta gacctatact gaaagatctc 2100
tgtcacatcc aactgggraat tccaggaacc aaaaagagca tccctatggg cttggaccac 2160
ttacagtgtg ataaggccta ctatacatta ggaagtggca gttctttact cgtccccttt 2220
catcggtgcc tggtactctg gcaaatgatg atggggtggg agactttcca ttaaatcaat 2280
caggaatgag tcaatcagcc tttaggtctt tagtccgggg gacttggggc tgagagagta 2340
taaataaccc tggctgtcca gccttaatag acttctctta cattttcgtc ctgtagcacg 2400
ctgcctgcca aagtagtcct ggcagctgga ccatctctgt aggaagtcta ttaaggctgg 2460
acagcccagg gttatttata ctctcccagc ccacctcaac ccagaggcta ctcttgactt 2520
agacctatac tgaaagatct ctgtcacatc caactggaaa ttccaggaac ca         2572
```

<210> 487
<211> 1451
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1256)
<223> n equals a,t,g, or c

<400> 487
```
tgttttttatt ttatattatt attatagaag gtggtaccat tatcaattat gtgaagggac 60
atgcagacac cccagctttt gagggtgctg ggggtaggac tgaggcagcc ccactgggaa 120
ccagactgca gcctggccca tggctgtttt cccaaggatc agttcctgga gggaagggct 180
ctggccctga ctccgctgtg tcccgagcac acgtgctgac cgcagcccgc cgccctgtag 240
ttcttggctg ggtctggagg tgtctgtgga gcaccctgcc ctcaccacag gagcgtgagc 300
cacttctgca gtccacgctg aacatgggaa acaacctgaa aagcaggcag gcctcccggt 360
cagggagcct ctgctgtgct ggcttcccat gaccacctcc tcctgctgaa atattactgc 420
```

```
ttgaatctgg agcagattgc gggtttataa aactgctttt tatctgagaa caaacgggtt 480
tggaaattag tcgtcttttt tccccactcc cagagctgct caartcattc caccggcccc 540
ctcggcttgg gacagggtag tgtaactccc gatcccaggg cctagccctg acacaggtgg 600
cttcccgtat cccggtggga aaacgccctg ccaccagcgg gcttgagctg gcctgtgtcc 660
ctccacygcc tgcaccaccc acctccagag tgcagtgctg ggcaagggca gctcaagagr 720
acaggaccag gcgcttggca agacatcaga cacacccaac ccaaaggcgt ggaccccagg 780
cccggcccgt ggtacccagc aggtggcact gcagctcccc gctcctgcag gtccagcgtc 840
ctcacaggaa caccagggcc tgtgctccgg agccttcctt cagacccttc ctccacgtgc 900
ccacttggga tgcagaatgc agcggagcta ggaccccctc cacggcctgg acctcggctg 960
cagtaaagtt acgtgaggcc tgtctctcgg ggcctggaag tggcagccat cagttgctct 1020
tgctgacccc tcggagcaag cgccgcacag gtggtggctg agacagctgg cgcggggggc 1080
cccaagctgc gccggcctcc agcccaccca cagctgttgc tgaagtcagg cctccctccc 1140
cagcactggt atctgagtaa cggctaagaa cctccttcct ctggttttga aaagcagttc 1200
gggttgtcca attctgtaac attcatctcc atttttaaa aaggtttctc tgacgncccc 1260
acggcccgag ccgcggtgag cgtcgtgttg catgagcctg ggccccgggc ttcccgtgcg 1320
cctctgccgc aggtgcttct gggcacccat cctctgcgtt tcatttgcag tcgactgtac 1380
agaaggcact caccacaata aacctttcct gaaagcagaa aaaaaaaaaa aaaaaaaaaa 1440
aaaaaaaaaa a                                                       1451
```

<210> 488
<211> 1200
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<400> 488

```
gaccggccca cgcttcccgc cagtccccta accctgaggc tgccgcgcgg cggtcactgc 60
gccggggtag tgggccccag tgttgcgctc tctggccgtt ccttacactt tgcttcaggc 120
tccagtgcag gggcgtagtg ggatatggcc aactcgggct gcaaggacgt cacgggtcca 180
gatgaggaga gttttctgta ctttgcctac ggcagcaacc tgctgacaga gaggatccac 240
ctccgaaacc cctcggcggc gttcttctgt gtggcccgcc tgcangcaag aagggggttaa 300
aagtggaatg tatgttgtaa tagaagttaa agttgcaact caagaaggaa aagaaataac 360
ctgtcgaagt tatctgatga caaattacga aagtsctccc ccatccccac agtataaaaa 420
gattatttgc atgggtgcaa aagaaaatgg tttgccgctg gagtatcaag agaagttaaa 480
agcaatagaa ccaaatgact atacaggaaa ggtctcagaa gaaattgaag acatcatcaa 540
aaaggggggaa acacaaactc tttagaacat aacagaatat atctaagggt attctatgtg 600
ctaatataaa atatttttaa cacttgagaa cagggatctg ggggatctcc acgtttgatc 660
cattttcagc agtgctctga aggagtatct tacttgggtg attccttgtt tttagactat 720
aaaagaaac tgggatagga gttagacaat ttaaaagggg tgtatgaggg cctgaaatat 780
gtgacaaatg aatgtgagta ccccttctgt gaacactgaa agctattctc ttgaattgat 840
cttaagtgtc tccttgctct ggtaaaagat agatttgtag ctcacttgat gatggtgctg 900
gtgaattgct ctgctctgtc tgagattttt aaaaatcagc ttaatgagag taatctgcag 960
acaattgata ataacatttt gaaaattgga aagatggtat actgttttta gaggaataaa 1020
cgtatttgtg gtttaaaaaa aagagcaact tcctttgcac tgtataccct tttgtattat 1080
taggatttta tactatgttt atatgttgcc tatttaataa atcgcttaaa gttatatatc 1140
ttgaatatct ttccataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1200
```

```
<210> 489
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<400> 489
tgcctggcac acacgtttct nttccccact tcctttgggg gtgtgcttca ctgcgggtcg 60
ctaacaggat gtctagtgtt cagtggtggt cacaagattc agtctgcaga gccgacttcc 120
tcagcctcct gaagacactg aacaccgcag tgttttccag tcagcaacgc aacaaaatca 180
gtttaagtga taatgacaat aacaaacaat ccatagcatc cacagcattc actgcttact 240
gnaaaactta ctatgtccca ggcacaagca ctgactttaa tcttg            285


<210> 490
<211> 682
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<400> 490
gggaagggcg ggcaggaggg cagggaagcc gtcacccagg cacaaagcgc ctcccgntga 60
gnggactcca aagggacggn ccgcggtgtg cagcgagctg cgctcagggg accttgcgcc 120
cggcccttct gctgcacaca gcccacccag gacctccgc agcgctgaca ggcggggcgg 180
gtgcaaagac ggggcggggt ctctgcgccc ggccccctcc cctgactatc aaagcagcgg 240
ccggctgttg gggtccacca cgccttccac ctgccccact gcttcttcgc ttctctcttg 300
gaaagtccag tctctcctcg gcttgcaatg gaccccaact gctcctgcgc cgctggtgtc 360
tcctgcacct gcgctggttc ctgcaagtgc aaagagtgca aatgcacctc ctgcaagaag 420
agctgctgct cctgctgccc cgtgggctgt agcaagtgtg cccagggctg tgtttgcaaa 480
```

```
ggggcgtcag agaagtgcag ctgctgcgac tgatgccagg acaacctttc tcccagatgt 540
aaacagagag acatgtacaa acctggattt ttttttttata ccaccttgac ccatttgcta 600
cattcctttt cctgtgaaat atgtgagtga taattaaaca ctttagacct gaaaaaaaaa 660
aaaaaaaaaa aaaaaaaaaa aa                                             682
```

```
<210> 491
<211> 1859
<212> DNA
<213> Homo sapiens
```

```
<400> 491
agggaaaaaa gatctggcgg atgaaaataa ccagaatgaa aatagctaga aaactcagca 60
agcaggaagc tcccttttctc accctttttgt tcccttgccg atagaatcag tcactattag 120
aaaaaatgaa agacgctctg tttaaaacaa tgatgacagc agtacttaat atgtatttcg 180
aggtgaactt atatagattg agagaggctg catttggcag actgatgtat aggaagaccc 240
atttgtttct agcttctccc tgcagggaaa atgctttcgt cattatagcc tctttacaca 300
gactggccat tctagtgaac aggtggtaaa cctttgggct gcccagaaac attttatctg 360
ktttcactta cctaggaagg ggaaagatta gcgggtcatc caaaatctgt atgtaagcta 420
tcttcatttt cttccccaac cttctcctcc tgggaaacac aaatgctatc tcatctgaca 480
aaaggtttta gaggataaag ctgaaaagat tggattggga tctttttgtg gcttggggcg 540
gactttttgc taaaatctca agaatgctgc tttgagttta gctagggtgg ctctcagaac 600
tggggtgcct ggcattctca gcatttctca ggggcctccc acctctgaca actgcagtgt 660
tagctaatac ataccttgag catagaactg aatgctgtaa ttcagagcca tttttttttt 720
caacttgaac attgtacaat tttactgcaa tttcctttga actttcttgc cactgtttgg 780
aatcttaaaa attcattagc cttctccttt ctgacataaa gctactcttc atcagagatg 840
agttcctatg tatgtccttt gttccttcaa tagctaatta atgtgcttga ggatacttca 900
gtggaaaaaa aggtttaaat atgcaaatta ctaataaatg tgtaacctta tgtaacttgt 960
gttacatcaa gtaacaagct aatctagttt gtttcactgg actaggcttg tgctccctac 1020
ttcagtattt tgatgctttc cttgatcttt gtttcacaaa atgttgtgaa ttttggtatc 1080
attcaaaaca aatgacattt attagggttt cattttgaaa cgatgtacag acaagtcccc 1140
aacttagaaa ccggtttgtt cttaaggttc ttgcgtcacc catagaagcc cactgacctc 1200
caccacagcc caaatggagg gctgtgatag ccagatctgg ttggcttttg tgggctgacc 1260
cagacattta atcaccatct cttatgttgt tgccgtaaga aatgcattcc aggttgggac 1320
ttgggatcct gagagcacat tcgccccctg tggtggccgc ttgccacytk gcaagatgga 1380
agcccagtct ccttactacc aaactgtagt tgtaagcaga gggaggggtg agatgtttat 1440
aggacattcc ctaagctggg gagtgatttt tatcactatt catgtcaact gtactttggt 1500
atagactccc tatcaattta ataatatgaa aagcctaaaa taaaactatg catgctattc 1560
tatgtgctat tttatatcag taaataagct tatgcttgcc agttgtatac acagttatga 1620
ggtgtataga actgactttg acagtatttt ttgcactgtt tcctatctgt ttttataaag 1680
tcttatttag atattggacc ttgttgatgt tctcactgcc cttgtgcttg ctataaaatg 1740
tttcatatgt gcctttacaa atgtgagatc tttattctaa cctttttttg taaaagatat 1800
ctattgattt ccatatgcaa taaaccttttt tttcagagaa aaaaaaaaaa aagtcgagc 1859
```

```
<210> 492
<211> 2709
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (2160)
```

<223> n equals a,t,g, or c

<400> 492

```
taaacccatt ggtccaagga ctatcaactg gtgacgtggt cccgggatca gaccttgaga 60
atgtggcggg tggattccca gatgcagagg ctttgtgcaa atgacatatt agatggtgtt 120
gatgagttca ttgagagtat ttcccttctg ccggaacctg agaagaccct gcacactgaa 180
gatacagatc accagcacac tgcaagccat ggggaggaag aagccctaaa agaagatccc 240
cctagaaatc tcctggaaga gaggaaatca gatcaactgg ggctgcctca gaccttgcag 300
caggaattct ccctgatcaa tgtgcaaatc cggaatgtca atktggagat ggatgcggca 360
gacaggagct gcacagtgtc tgtgcactgc agcaaccatc gtgtcaagat gctggtgaag 420
ttccctgcac agtacccaaa caacgccgcc ccttccttcc agtttattaa ccccacaacc 480
atcacatcca ccatgaaagc taagctgctg aagatcctga aggacacagc cctgcagaaa 540
gtgaagcgtg gccagagctg cctggagccc tgcctgcgcc astcgtctcc tgccttgagt 600
cckktgtgaa ccaggwagac agcgcttcca gcaacccgtt tgcactcccc aactctgtca 660
ctccccccctt accgacgttt gccgggtgac cacggcttac gggtcgtacc aggacgccaa 720
cattcccttt cctaggactt ctggggccag gttctgcgga cagkttacct ggtatatttc 780
acaaggccca tgacaatgca tcgggcggtg tctcccacag agcctactcc gagatctctc 840
tcagccttgt ctgcttatca cactggcttg atcgcgccca tgaagatccg cacagaggcc 900
cctgggaacc ttcgtttata cagtgggagc cccactcgca gcgagaaaga gcaggtctcc 960
atcagctcct tctactacaa ggagcggaaa tcaagacgat ggaaaagtaa gcgtgaggga 1020
tcagactctg gcaatcgaca gatcaaggct gctgggaaag tcatcatcca ggatattgct 1080
tgcctcctgc ctgttcacaa atcgctggga gagctgtaca tattgaatgt gaatgatatt 1140
caggaaacat gtcagaagaa tgccgcctct gccttgctcg ttggaagaaa ggatcttgtc 1200
caggtttggt cgctggctac ggtagctaca gatctttgcc ttggtccgaa atctgaccca 1260
gatttggaaa caccctgggc tcgacatcca tttgggcggc agctgctgga gtccctgttg 1320
gctcactatt gccggctccg ggatgttcag acactggcga tgctctgtag cgtgtttgaa 1380
gcccagtctc ggcctcaggg gctaccaaac ccctttgggc cttttcctaa ccgttcttct 1440
aatcttgtgg tgtcccatag tcgatatcct agctttacct cttctggttc ctgctccagt 1500
atgtcagacc cagggctcaa cactggcggc tggaacatag cgggaagaga ggcagagcac 1560
ttgtcctccc cttggggaga atcctcacca gaagagctcc gctttgggag tctgacctac 1620
agtgatcccc gtgagcgaga acgygaccag catgataaaa ataaaaggct cctggacccc 1680
gccaataccc agcaatttga tgactttaag aaatgctatg gggaaatcct ctaccgttgg 1740
ggtctgagag agaagcgagc tgaagtgttg aagtttgtct cctgtcctcc tgaccctcac 1800
aaagggatcg agttcggcgt gtactgcagc cactgccgga gtgaggtccg tggcacgcag 1860
ttgccatctg caaaggcttc acgttccagt gtgccatctg tcacgtggct gtgcggggat 1920
cgtccaattt ctgcctgacc tgtgggcacg gtggccacac cagccacatg atggagtggt 1980
ttcggaccca ggaggtgtgt cccaccgggt gtgggtgcca ctgcctgctt gaaagcactt 2040
tctgaaccta cagaagttgg gtattgtctg aaatcccaga ggacccataa gtgccggtga 2100
caagctgtct gtcaggggag aggctccaga acctgggttc gtccccagtg agaccggagn 2160
atgatccccc aaggactgcg cagcatcagc tcttggtggg cctctgcctt ctcttctgtt 2220
tggccacctg gtgtggatgt cactgtgtga agataaggac agaagtgcag agctgcgctt 2280
tgtgtgttgt ctatgtcggc tgagctacca aggtggaagt tttcatggag aaaagcacct 2340
ggctccaggg ccagtgttac agtgttaccc tgtaaggtgt tagccttaaa ccaccgagca 2400
gcgttctctt gatgccagtg cagagaccag agtcagatgc ccgaggacag tgggtaggaa 2460
tttcatcaac aaatggacct atggcatcat ggctttagaa gctggtacat ttactgagct 2520
gatggacagt ggccttctaa aatatgacac ttaaattgta aatatgcact gtacttaagg 2580
attcttaaga tgtattttтт tgttatttct cctccagctg ctatcccttg gctaataaaa 2640
ttctagtaat ttgaaaaaaa aaaaaaagag agaaarttaa aaaaaaaaa aaaaaaaaa 2700
agggcggcc                                                        2709
```

<210> 493

<211> 1451
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1307)
<223> n equals a,t,g, or c

<400> 493
```
ttgaaaaatg gcagaaacta gacagtagtt gcctgggagg gagggtatca cacttttagc   60
acttgtttga ctgtctcctg gttgcaggag gaccagtatg atcatttgga tgctgctgac  120
atgacaaagg tagaaaaaag cacaaatgaa gcaatggagt ggatgaataa caagctaaat  180
ctgcagaaca agcagagttt gaccatggat ccagttgtca agtcaaaaga gattgaagct  240
aaaattaagg agctgacaag tacttgtagc cctataattt caaagcccaa acccaaagtg  300
gaacctccaa aagaggaaca aaaaaatgca gagcagaatg gaccagtgga tggacaagga  360
gacaacccag gcccccaggc tgctgagcag ggtacagaca cagctgtgct tcggattcag  420
acaagaagct tcctgaaatg gacattgatt gattccaaca cttgtttcta ttaaaacaga  480
ctattataaa gctttaagtt gtcaactttg ttctaaatat caactagcgc aagtgaatac  540
tgaagatttc ttagtcagtt tttaggggat tttcggggag gggaaatagg taatgtatgg  600
agcattttca cttctaaata gttagataca gaaattaagt gcattgtatc tttttcataa  660
tggtactatt tagaagccca gttagtctta ctgagcttat gcttcactcc tttatgttta  720
accatgtgtc tacaagaata agtttgtttt ggaaagttga gctatagcta cagctctagc  780
tatccagcag acttttcatt atgacttaca tggcaggagc tctaattatg ctttaaaaat  840
ctgttgtgga gattgcttta aatgctccct gcctggtgtg gggatggggt ccccctcttt  900
gtgagggctg gagcatggca cggcatggat taacacggca gaggaacaaa ggtgtgctct  960
gagcttcttc atatttcacc ttcaccctca cctgtgttct cttccctctc tcccaataaa 1020
agggctccca ttataaatgc catgtacttc tcttgggaaa atagaccccc ttgcctagag 1080
taagttgtta actgagggct ttaaacctgg aggctcttcc tgaaagtatg ttcatgaata 1140
ccccaagcat caaggtctaa ataattttca gaagattaga attgggtaga tatactgttg 1200
gatatagcca tggtaaattt aactgaggaa ttaaatcctt gttaattttg gttaaaaaga 1260
aaaaggctaa ttaggcgagg ttccttgtgg ggaatgctgc tgcgggntta acggaggaac 1320
tatggcgcag tgaccgtgga gacctccggt taggggcccc ctcccgctta agcgccgcac 1380
gggtgcggcg aagccacgtg cttctagctc gacgtgtgtt cgcaaacggc ggcttcgtac 1440
tcaattcgca c                                                      1451
```

<210> 494
<211> 1268
<212> DNA
<213> Homo sapiens

<400> 494
```
ggcacgaggt cgtagagcac aacccgatct ccgtcctgga cagcccctcc agtgattgct   60
ttgcagaatg gcctggtgag ttgggcagag gttggatgga cagaaacaaa cacacagaga  120
gtgaagtcca aggacgctgg tcttcttttct cccttttgtag agtgaggat aagctctgca  180
gcgggccctg gaaatgtccc tggcagaaac caaaccccag gttccaaggt accttaccct  240
cttgtgaaag agagcgcaac tgtgggcaag ggcttggtct ggaggcaggt aggtgggacc  300
actctgacac aatgcaagat aatcgctggc aacttggtct caaaattaag atgaactata  360
tgatctttga caagttattt aaacccatgga gccttcattt cctctataaa acggggacaa  420
tactaatacc caccttgtag tgttgctatg aagattgaga taatcctcag cagtgctcag  480
caccatgagg cccaacacac acagatcaga tgttcaaatt tcagatctta ccatcatcca  540
```

```
acttaaactg tttctccctc ccagttgtca ggaggaagaa gacctagctt tagcacaagc 600
actgtcagcc agtgaggcag aataccagcg gcagcaggta tgaggctggg ctgaagatat 660
atgctgcagt ggaagggagg aagaagtcag ggatgggggt tcttcctagt ggtgcagagt 720
tttggaatgg tggttatcgt ctggtttttca gtatgactcc agcccatgct gagctctgaa 780
atgagggctg tccctcattt ccttgacgtt gcactgtgtc ttcccctcct tccctctct 840
ttgctctagg cccagagccg cagctcgaag ccgtccaact gcagcctgtg ctagggccct 900
gggcttgggg agggaggttc acctgaggag gactgtggcc ctcacacctc tagggtacac 960
agggagagga ggcccggagc accctggagg gcagagacaa gcgggagtga tgtggaggtc 1020
gccctgggag cctctggaag gccttgctag tgctccagct gcatggaaga gagcggctag 1080
caactgttcc ctggttgggc cctcagtgga tgctggccag gccctactct tagccccttc 1140
atcatgtcat ctcccttatg ctggagctgc cccgatgtgg agtgggcagg aagggggcctg 1200
gaaaaaataa aggatcttgg cagttgataa aacgtaaaaa aaaaaaaaaa aaaaaaaaaa 1260
ggggggggg                                                       1268
```

<210> 495
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (382)
<223> n equals a,t,g, or c

<400> 495
```
aattcggcac agacgcacca ggcgcctctc aactgttcac tttaagatgt tgaaatgtac 60
aggatgtgaa tttcacctca aattaaaaca ttaaaaaaag aaaatggtac acagtgcccg 120
ccctaggtgt tgaggaattc ccagttcaca atctcctgag cagtgcgtgg catctacaga 180
gaggcccgty ttttcctttt cattaagaca gggtctctgt tgcctaggct ggagctcagt 240
ggcacaatca tagctcgctg cagccttgga actcccaggc tcaggtgatc ctgccttcag 300
ccccggcccg agtagctggg accccaggca tgcaccatta caaccaacta attttttttn 360
atttttaatt aatttccttt gnga                                       384
```

<210> 496
<211> 975
<212> DNA
<213> Homo sapiens

<400> 496
```
aattcggcas agcgggaagt tgctctcaga ggcagcgtgc gggtgtgctc tttgtgaaat 60
tccaccatgg cgtaccgtgg ccagggtcag aaagtgcaga aggttatggt gcagcccatc 120
aacctcatct tcagatactt acaaaaataga tcgcggattc aggtgtggct ctatgagcaa 180
gtgaatatgc ggatagaagg ctgtatcatt ggttttgatg agtatatgaa ccttgtatta 240
gatgatgcag aagagattca ttctaaaaca aagtcaagaa aacaactggg tcggatcatg 300
ctaaaggag ataatattac tctgctacaa agtgtctcca actagaaatg atcaatgaag 360
tgagaaattg ttgagaagga tacagtttgt ttttagatgt cctttgtcca atgtgaacat 420
```